



Department of Transport

# Supplemental Type Certificate

**This approval is issued to:**

Aero Design Ltd.  
2013 39th Avenue North East  
Calgary, Alberta  
Canada T2E 6R7

**Number:** SH09-5

**Issue No.:** 1

**Approval Date:** March 20, 2009

**Issue Date:** March 20, 2009

**Responsible Office:**

Prairie and Northern

**Aircraft/Engine Type or Model:**

BELL 206B

**Canadian Type Certificate or Equivalent:**

H-92

**Description of Type Design Change:**

Installation of External Attachment Provisions, Quick Release Mounting Provisions and Cargo Basket

**Installation/Operating Data,  
Required Equipment and Limitations:**

**Configuration A – External Attachment Provisions Only:**

Installation of External Attachment Provisions to be completed in accordance with Transport Canada approved, AERO Design Ltd. Document Control List, DCL497-1, Revision 0, dated 22 December 2008, or later approved revision.

Transport Canada approved, AERO Design Ltd. Flight Manual Supplement FMS497.92, Revision 0, dated 22 December 2008, or later approved revision is required with this installation.

Transport Canada accepted, AERO Design Ltd. Instructions for Continued Airworthiness ICA497.90, Revision 0, dated 18 December 2008, or later accepted revision is required with this installation.

External Attachment Provisions installed in accordance with DCL497-1 may remain installed if any other configuration is removed.

...See Continuation Sheet



**Conditions:** This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.

R.A. Goossens  
For Minister of Transport

## TRANSFER ENDORSEMENT

A transfer of ownership requires a prior approval from the Minister.

The reissue of the certificate in the name of the transferee will be contingent upon a demonstration made by the new owner that he/she can fulfill the responsibilities of the holder as described in airworthiness manual chapter 513.

### TRANSFER OF OWNERSHIP

TO (NAME AND ADDRESS OF TRANSFeree)

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FROM (NAME AND ADDRESS OF OWNER)

*Superseded.*

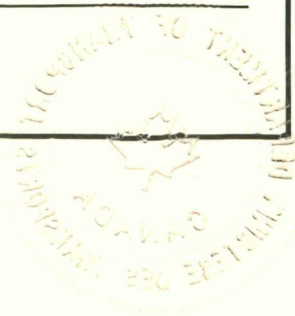
TRANSFER PARTICULARS (LICENCE  
AGREEMENT, SALE OF RIGHTS, ETC.)

DATE OF TRANSFER

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SIGNATURE  
(OF ORIGINAL OWNER)

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NOTE: THIS ADDENDUM SHALL REMAIN PART OF THE CERTIFICATE REFERRED TO THEREIN.

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**Configuration B - Quick Release Mounting Provisions:**

Installation of Configuration A, External Attachment Provisions, is a prerequisite for installation of Configuration B, Quick Release Mounting Provisions. Installation of Quick Release Mounting Provisions to be completed in accordance with Transport Canada approved, AERO Design Ltd. Document Control List DCL497-2, Revision 0, dated 22 December 2008, or later approved revision.

Transport Canada accepted, AERO Design Ltd. Instructions for Continued Airworthiness ICA497.91, Revision 0, dated 22 December 2008, or later accepted revision is required with this installation.

Quick Release Mounting Provisions installed in accordance with DCL497-2 may remain installed if a cargo basket configuration is removed.

**Configuration C - External Cargo Basket (Short Basket):**

Installation of Configuration A, External Attachment Provisions, and Configuration B, Quick Release Mounting Provisions, are prerequisite for installation of Configuration C, External Cargo Basket Installation. Installation of Quick Release Cargo Basket to be completed in accordance with Transport Canada approved, AERO Design Ltd. Document Control List, DCL802-1, Revision 0, dated 22 December 2008, or later approved revision.

**Configuration D - External Cargo Basket (Medium Basket):**

Installation of Configuration A, External Attachment Provisions, and Configuration B, Quick Release Mounting Provisions, are prerequisite for installation of Configuration D, External Cargo Basket Installation. Installation of Quick Release Cargo Basket to be completed in accordance with Transport Canada approved, AERO Design Ltd. Document Control List, DCL803-1, Revision 0, dated 22 December 2008, or later approved revision.

**Configuration E - External Cargo Basket (Long Basket):**

Installation of Configuration A, External Attachment Provisions, and Configuration B, Quick Release Mounting Provisions, are prerequisite for installation of Configuration E, External Cargo Basket Installation. Installation of Quick Release Cargo Basket to be completed in accordance with Transport Canada approved, AERO Design Ltd. Document Control List, DCL811-1, Revision 0, dated 22 December 2008, or later approved revision.

...See Continuation Sheet



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NOTE: THIS ADDENDUM SHALL REMAIN PART OF THE CERTIFICATE REFERRED TO THEREIN.

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**Cargo Basket Modifications:**

Modifications to the Cargo Basket configurations are eligible in accordance with Transport Canada approved, AERO Design Ltd. Document Control List DCL704, Revision 5, dated 22 December 2008, or later approved revision. Eligibility limitations are noted on the drawings.

**Data Pertinent to All External Cargo Basket Configurations (C, D, E):**

Transport Canada approved, AERO Design Ltd. Flight Manual Supplement FMS803.91, Revision 0, dated 18 December 2008, or later accepted revision is required with this installation.

Transport Canada accepted, AERO Design Ltd. Instructions for Continued Airworthiness ICA803.90, Revision 0, dated 18 December 2008, or later accepted revision is required with this installation.

**Basis of Certification:**

Basis of certification remains as defined in the applicable Type Certificate Data Sheets.

— End —

United States of America  
Department of Transportation -- Federal Aviation Administration

# Supplemental Type Certificate

## IMPORT

*Number* SR02721NY

*This certificate issued to* Aero Design Ltd.  
2013-39<sup>th</sup> Avenue NE  
Calgary, Alberta, T2E 6R7  
Canada

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 6 of the Civil Air Regulations.*

*Original Product -- Type Certificate Number:* H2SW

*Make:* Bell

*Model:* 206B

*Description of Type Design Change:*

The installation of External Attachment Provisions, Quick Release Mounting Provisions, and Cargo Basket for:

1. **Configuration A-External Attachment Provisions Only:** Installation of External Attachment Provisions to be done in accordance with Aero Design Ltd. Document Control List, DCL497-1, Revision 0 dated December 22, 2008, or later Transport Canada approved revision.

(Description of Type Design Change continued on page 2 of 2)

*Limitations and Conditions:*

1. **Configuration A:**

- a. Operation must be in accordance with Aero Design Ltd. Flight Manual Supplement, FMS497.92 Revision 0 dated December 22, 2008, Transport Canada Approved March 20, 2009, or later Transport Canada approved revision.
- b. Instructions for Continued Airworthiness described in Aero Design Ltd. Instructions for Continued Airworthiness ICA497.90, Revision 0 dated December 18, 2008, Transport Canada accepted March 20, 2009, or later Transport Canada accepted revisions are required for this installation.
- c. External Attachment Provisions installed in accordance with DCL497-1 may remain installed if any other configuration is removed.

(Limitations and Conditions continued on page 2 of 2)

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application:* April 21, 2009

*Date received:*

*Date of issuance:* August 10, 2009

*Date amended:*



*By direction of the Administrator*

*[Signature]*  
(Signature)

Anthony Socias  
Manager  
New York Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 1 year, or both.



United States of America  
Department of Transportation -- Federal Aviation Administration

# Supplemental Type Certificate

(Continuation Sheet)

*Number* SR02721NY

Date of Issuance: August 10, 2009

*Description of Type Design Change* (Continued):

2. **Configuration B-Quick Release Mounting Provisions:** Installation of Configuration A, External Attachment Provisions is a prerequisite for Configuration B, Quick Release Mounting Provisions. Installation of Quick Release Mounting Provisions to be done in accordance with Aero Design Ltd. Document Control List, DCL497-2, Revision 0 dated December 22, 2008, or later Transport Canada approved revision.
3. **Configuration C-External Cargo Basket (Short Basket):** Installation of Configuration A, External Attachment Provisions, and Configuration B, Quick Release Mounting Provisions are prerequisites for Configuration C, External Cargo Basket Installation. Installation of Quick Release Cargo Basket is to be done in accordance with Aero Design Ltd. Document Control List, DCL802-1, Revision 0 dated December 22, 2008, or later Transport Canada approved revision.
4. **Configuration D-External Cargo Basket (Medium Basket):** Installation of Configuration A, External Attachment Provisions, and Configuration B, Quick Release Mounting Provisions are prerequisites for Configuration D, External Cargo Basket Installation. Installation of Quick Release Cargo Basket is to be done in accordance with Aero Design Ltd. Document Control List, DCL803-1, Revision 0 dated December 22, 2008, or later Transport Canada approved revision.
5. **Configuration E-External Cargo Basket (Long Basket):** Installation of Configuration A, External Attachment Provisions, and Configuration B, Quick Release Mounting Provisions are prerequisites for Configuration E, External Cargo Basket Installation. Installation of Quick Release Cargo Basket is to be done in accordance with Aero Design Ltd. Document Control List, DCL811-1, Revision 0 dated December 22, 2008, or later Transport Canada approved revision.

*Limitations and Conditions* (Continued):

2. **Configuration B:**
  - a. Instructions for Continued Airworthiness described in Aero Design Ltd. Instructions for Continued Airworthiness ICA497.91, Revision 0 dated December 22, 2008, Transport Canada accepted March 20, 2009, or later Transport Canada accepted revisions are required for this installation.
  - b. Quick Release Mounting Provisions installed in accordance with DCL497-2 may remain installed if a cargo basket configuration is removed.
3. **Configurations C, D, E:**
  - a. Operation must be in accordance with Aero Design Ltd. Flight Manual Supplement, FMS803.91 Revision 0 dated December 18, 2008, Transport Canada approved March 20, 2009 or later Transport Canada approved revision.
  - b. Instructions for Continued Airworthiness described in AERO Design Ltd. Instructions for Continued Airworthiness ICA803.90, Revision 0 dated December 18, 2008, Transport Canada accepted March 20, 2009 or later Transport Canada accepted revisions are required for this installation.
4. Modifications to the Cargo Basket configurations are eligible in accordance with Aero Design Ltd. Document Control List DCL704, revision 5, dated December 22, 2008, or later Transport Canada approved revision.
5. The Installer must determine whether this design change is compatible with previously approved modifications.
6. If the holder agrees to permit another person to use the certificate to alter a product, the holder must give the other person written evidence of that permission.

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NEW ENGLAND REGION  
NEW YORK AIRCRAFT CERTIFICATION OFFICE  
1600 STEWART AVENUE, SUITE 410  
WESTBURY, NEW YORK 11590

**INFORMATION CONCERNING YOUR RESPONSIBILITY AS HOLDER OF A  
SUPPLEMENTAL TYPE CERTIFICATE ISSUED TO A CANADIAN APPLICANT**

This STC is official indications of FAA approval of your installation and may be used to authorize identical installation on other aircraft of the same model, subject to the limitation noted in the STC. It may be transferred, or otherwise made available to another party by means of a licensee arrangement; however, you are requested to advise this office when you transfer or grant licensee rights to the STC in order that we may take the necessary recording or reissuance action.

If you plan to manufacture and sell parts for installation on type certificated aircraft, please review FAR 21.502, which is applicable to parts imported into the U.S.

A copy of the STC and required documents should accompany each kit and installation. Also, your attention is directed to the limitations and conditions specified in the STC.

As recipient of this approval, except as provided in FAR21.3(d), you are required to report any failure, malfunction, or defect in any product or part manufactured by you that you have determined has resulted or could result in any of the occurrences listed in FAR 21.3(c).

The report should be communicated initially by telephone and subsequently in writing to the Manager, New York Aircraft Certification Office, telephone (516) 228-7300, mailing address: 1600 Stewart Avenue, Suite 410, Westbury, New York 11590. This first contact should take place within 24 hours after it has been determined that the failure required to be reported has occurred.

FAA Form 8010-4, Malfunction or Defect Report, or any other appropriate format is acceptable in transmitting the required details.



Anthony Socias  
Manager,  
New York Aircraft Certification Office





U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

Engine & Propeller Directorate

New York Aircraft Certification Office  
1600 Stewart Avenue  
4th Floor, Suite 410  
Westbury, NY 11590  
(516) 228-7300, Fax: (516) 794-5531

OCT 13 2009

Mr. J. Staal  
Aircraft Certification Engineering Technologist  
Transport Canada, Prairie and Northern Region (RAED)  
1100-9700 Jasper Avenue  
Edmonton, Alberta T5J 4E6  
Canada

Subject: Issuance of Supplemental Type Certificate (STC) SR02721NY

Dear Mr. Staal:

This is in reference to your request dated April 21, 2009 (TCCA File Ref. C-09-0362) for the issuance of a Supplemental Type Certificate (STC), under terms of the US/Canada Bilateral Aviation Safety Agreement (BASA) for the Installation of External Attachment Provisions and Cargo Basket to AERO Design Ltd on Bell 206B model aircraft. The corresponding FAA Project Number is ST6340NY-R (TCCA STC SH09-5, Issue No.1, approved March 20, 2009; issued March 20, 2009).

We have reviewed the information submitted by your office. In accordance with the current US/Canada Bilateral Aviation Safety Agreement, we have enclosed STC SR2721NY, issued August 10, 2009.

In accordance with the US/Canada bilateral relationship using TCCA compliance to the maximum extent, this STC includes references to documents that include the words "or later TCCA approved/accepted revisions." It is expected that as State of Design responsible for the STC, TCCA will coordinate any major/significant changes, as deemed appropriate, with the FAA prior to TCCA approval/acceptance.

Please forward the enclosed STC and a copy of "Information Concerning Your Responsibility as a Holder of a Supplemental Type Certificate Issued to a Canadian Applicant" to AERO Design Ltd. A copy of the STC and required documents should accompany each installation. Also, your attention is directed to the limitations and conditions specified in the STC.

If you have any questions relating to the above information, please contact Mr. Stephen Kowalski at (516) 228-7327.

Sincerely,

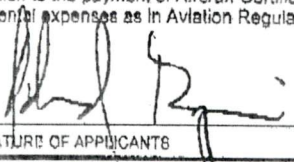
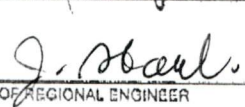
*For* Anthony Socias  
Manager, New York Aircraft Certification Office

Enclosures



## MODIFICATION APPROVAL REQUEST APPLICATION FORM

MOD803, Rev

1. NAME AND ADDRESS OF APPLICANT:		2. IDENTIFICATION OF PRODUCT				
AERO Design Ltd. 2013 - 39th Avenue NE Calgary, Alberta T2E 6R7		MAKE: Bell	MODEL: 206B ✓			
ALL CORRESPONDANCE TO: AERO Design Ltd. 2013 - 39th Avenue NE Calgary, Alberta T2E 6R7		SERIAL No.: All eligible	REGISTRATION: All eligible			
3. REQUEST FOR:						
A. SUPPLEMENTAL TYPE CERTIFICATE (STC)		<input type="checkbox"/>				
B. STC/STA REVISION		<input checked="" type="checkbox"/>	STC/STA No. SH09-5 C-10-0801			
C. LIMITED SUPPLEMENTAL TYPE CERTIFICATE (LSTC)		<input type="checkbox"/>				
D. LIMITED STC/STA REVISION		<input type="checkbox"/>	LSTC/LSTA No.			
E. F.A.A. SUPPLEMENTAL TYPE CERTIFICATE		<input type="checkbox"/>				
F. F.A.A. STC REVISION		<input type="checkbox"/>	STC No.			
G. FAMILIARIZATION OF F.A.A. STC		<input type="checkbox"/>	STC No.			
H. REPAIR DESIGN APPROVAL (RDC)		<input type="checkbox"/>				
I. PARTS DESIGN APPROVAL (PDA)		<input type="checkbox"/>				
4. TITLE OF MODIFICATION OR REPAIR: External Attachment Provisions Installation; Quick Release Mounting Provisions Installation; Cargo Basket Installation; Step installation						
5. BRIEF DESCRIPTION OF MODIFICATION OR REPAIR: Installation of external attachment provisions that replace the landing gear support in the front, and the landing gear saddle strap in the back. Installation of Quick Release Mounting Provisions consisting of mounting beams that incorporate the release mechanism onto the external attachment provisions. Installation of Quick Release Cargo Basket on the Mounting Provisions. Installation of Quick Release Step when basket is removed						
6. APPLICABLE TYPE APPROVAL (TA) OR TYPE CERTIFICATE (TC) DOCUMENTS:						
A. TA NO. H-92		B. TC No.	C. OTHER			
7. PROPOSED BASIS OF APPROVAL:						
A. SAME AS TA <input checked="" type="checkbox"/>		B. SAME AS TC <input type="checkbox"/>	C. OTHER <input type="checkbox"/> (Please specify)			
8. DOCUMENTATION CHECKLIST		REQUIRED FOR DOT USE ONLY RECEIVED				
		YES	NO	YES	NO	DATE
COMPLIANCE PROGRAM		X				
MASTER DRAWING LIST		X				
FLIGHT MANUAL SUPPLEMENT		X				
MAINTENANCE MANUAL SUPPLEMENT			X			
INSTRUCTIONS FOR CONTINUING AIRWORTHINESS		X				
ENGINEERING REPORTS		X				
DESIGN DRAWINGS			X			
MANUFACTURE DRAWINGS & INSTALLATION INSTRUCTIONS		X				
ELECTRICAL LOAD ANALYSIS			X			
DRAFT STC, LSTC OR RDA			X			
WEIGHT AND MOMENT CHANGE		X				
FLIGHT TEST DATA			X			
OTHER (Specify)						
9. APPLICANT'S REMARKS: Revision is to add step configuration						
10. In addition to the payment of Aircraft Certification approval fees as prescribed in Canadian Aviation Regulations (CAR) Section 104, I agree to reimburse Transport Canada incremental expenses as in Aviation Regulation Directive No. 3, or equivalent, as applicable. For further details governing cost recovery, refer to AMA 513/4.						
PER. 		Consultant		13 SEP 2010		
SIGNATURE OF APPLICANTS		TITLE		16 February 2010		
11. 				2010 OCT 29		
SIGNATURE OF REGIONAL ENGINEER				DATE		



Transport  
Canada

Transports  
Canada

1100-9700 Jasper Avenue  
Edmonton, Alberta T5J 4E6

December 03, 2010

Your file      Votre reference  
878

Our file      Notre reference  
C-10-0801  
SH09-5

Aero Design Ltd.  
2013 39th Avenue North East  
Calgary, Alberta  
Canada, T2E 6R7

Dear Sirs:

**SUBJECT:      REVISION TO SUPPLEMENTAL TYPE CERTIFICATE NO. SH09-5 – ISSUE 2  
DATED DECEMBER 3, 2010 – INSTALLATION OF EXTERNAL ATTACHMENT  
PROVISIONS; QUICK RELEASE MOUNTING PROVISIONS; CARGO  
BASKET; CABIN STEP; AUXILIARY STEP – BELL 206B ISSUED TO AERO  
DESIGN LTD.**

This Supplemental Type Certificate (STC) is issued in response to your application. Included with the STC are documents bearing the original Transport Canada signatures.


The transfer of these documents in the name of another person requires a prior approval from the Minister in accordance with Canadian Aviation Regulations (CAR) 521.357.

To accomplish this modification, the requirements of CAR 561 apply if parts are manufactured.

Embodiment of this modification is considered to be a maintenance activity and the requirements of CAR 571.06(4) will apply.

An STC holder is required to report any service problem experienced with their product. Therefore, should you be come aware of any defect, malfunction or failure resulting from the design change, it is your responsibility to submit a Service Difficulty Report to Transport Canada in accordance with CAR Part V, Subpart 91. Other Obligations as a Design Approval Document Holder are contained in CAR 521, Division VIII.

Yours truly,

  
for D.S. Austen  
Senior Engineer, Aircraft Certification  
Prairie and Northern Region  
Phone: 780-495-5226  
Facs: 780-495-7963

Encl.

Canada 



**MSI 53 – Review of Supplemental Instructions for Continued Airworthiness**

**APPENDIX A-3 NORMAL CATEGORY ROTORCRAFT – CAR 527**

**BLOCK 1**

Name of the applicant for the design change approval:	Aero Design Ltd.
Description of the design change:	Installation of Auxiliary Step on Bell 206B
Certification Basis of design change and revision date:	FAR 27, Amendment 27-30
CAR Standard A527.1(c) Program showing how changes to supplemental ICA made by the applicant or by the manufacturers of products and appliances installed in the aeroplane pursuant to the design change will be distributed:	Section 0-3 of Supplemental ICA (ICA 623.91)
CAR Standard 513.05 (1) (g) (iv): Installation Instructions:	Installation Drawing 62302

**BLOCK 2**

Note: Enter "N/A" when no supplemental ICA are needed.

Regulatory Standard Reference Column 1	Design Approval Holder (DAH) ICA Reference Column 2	Applicant Means of Compliance Supplemental ICA Requirements Column 3
<b>A527.2 (a) Manual(s)</b> (a) The Instructions for Continued Airworthiness must be in the form of a manual or manuals as appropriate for the quantity of data to be provided.	ICA ref: Bell 206B Maintenance Manual BHT-206B-MM	Supplemental ICA ref: Single Manual (ICA623.91)
<b>A527.2 (b) Practical arrangement</b> (b) The format of the manual or manuals must provide for a practical arrangement.	ICA ref: Bell 206B Maintenance Manual	Supplemental ICA ref: Arranged in ATA format
<b>A527.3</b> The Instructions for Continued Airworthiness must contain the following manuals or sections, as appropriate, and information:		
<b>A527.3 (a) Rotorcraft maintenance manual or section</b>		
<b>A527.3 (a) (1) (Introduction)</b> (1) Introduction information that includes an explanation of the rotorcraft's features and data to the extent necessary for maintenance or preventive maintenance.	ICA ref: Bell 206B Maintenance Manual, Chapter 1	Supplemental ICA ref: Section 0-1
<b>A527.3 (a) (2) (Description)</b> (2) A description of the rotorcraft and its systems and installations including its engines, rotors, and appliances.	ICA ref: Bell 206B Maintenance Manual, Chapter 1	Supplemental ICA ref: Section 0-5



# MSI 53 – Review of Supplemental Instructions for Continued Airworthiness

Regulatory Standard Reference Column 1	Design Approval Holder (DAH) ICA Reference Column 2	Applicant Means of Compliance Supplemental ICA Requirements Column 3
<b>A527.3 (a) (3) Control &amp; Operation</b> (3) Basic control and operation information describing how the rotorcraft components and systems are controlled and how they operate, including any special procedures and limitations that apply.	ICA ref: N/A	Supplemental ICA ref: N/A
<b>A527.3 (a) (4) Servicing</b> (4) Servicing information that covers details regarding servicing points, capacities of tanks, reservoirs, types of fluids to be used, pressures applicable to the various systems, location of access panels for inspection and servicing, locations of lubrication points, lubricants to be used, equipment required for servicing, tow instructions and limitations, mooring, jacking, and levelling information.	ICA ref: Bell 206B Maintenance Manual, Chapter 12	Supplemental ICA ref: N/A
<b>A527.3</b> The Instructions for Continued Airworthiness must contain the following manuals or sections, as appropriate, and information:		
<b>A527.3 (b) Maintenance Instructions.</b>		
<b>A527.3 (b) (1) Scheduling</b> 1) Scheduling information for each part of the rotorcraft and its engines, auxiliary power units, rotors, accessories, instruments, and equipment that provides the recommended periods at which they should be cleaned, inspected, adjusted, tested, and lubricated, and the degree of inspection, the applicable wear tolerances, and work recommended at these periods. However, the applicant may refer to an accessory, instrument, or equipment manufacturer as the source of this information if the applicant shows that the item has an exceptionally high degree of complexity requiring specialized maintenance techniques, test equipment, or expertise. The recommended overhaul periods and necessary cross-references to the Airworthiness Limitations section of the manual must also be included. In addition, the applicant must include an inspection program that includes the frequency and extent of the inspections necessary to provide for the continued airworthiness of the rotorcraft.	ICA ref: Bell 206B Maintenance Manual, Chapter 5	Supplemental ICA ref: Section 5-1
<b>A527.3 (b) (2) Troubleshooting</b> (2) Troubleshooting information describing probable malfunctions, how to recognize those malfunctions, and the remedial action for those malfunctions.	ICA ref: N/A	Supplemental ICA ref: N/A

# MSI 53 – Review of Supplemental Instructions for Continued Airworthiness

Regulatory Standard Reference Column 1	Design Approval Holder (DAH) ICA Reference Column 2	Applicant Means of Compliance Supplemental ICA Requirements Column 3
<b>A527.3 (b) (3) Removal/replacement</b> (3) Information describing the order and method of removing and replacing products and parts with any necessary precautions to be taken.	ICA ref: Bell 206B Maintenance Manual, Chapter 25	Supplemental ICA ref: Section 25-1 and 25-2
<b>A527.3 (b) (4) General</b> (4) Other general procedural instructions including procedures for system testing during ground running, symmetry checks, weighing and determining the center of gravity, lifting and shoring, and storage limitations.	ICA ref: Bell 206B Maintenance Manual, Chapter 7 and 8	Supplemental ICA ref: Section 25-3
<b>A527.3 (c) Access</b> (c) Diagrams of structural access plates and information needed to gain access for inspections when access plates are not provided.	ICA ref: N/A	Supplemental ICA ref: N/A
<b>A527.3 (d) Special inspections</b> (d) Details for the application of special inspection techniques including radiographic and ultrasonic testing where such processes are specified.	ICA ref: Bell 206B Maintenance Manual, Chapter 5	Supplemental ICA ref: Section 5-1
<b>A527.3 (e) Protective treatment</b> (e) Information needed to apply protective treatments to the structure after inspection.	ICA ref: Bell Standard Practices Manual BHT-ALL-SPM, Chapter 3 & 4	Supplemental ICA ref: Section 5-3
<b>A527.3 (f) Fasteners, torque values, etc</b> (f) All data relative to structural fasteners such as identification, discard recommendations, and torque values.	ICA ref: Bell Standard Practices Manual BHT-ALL-SPM, Chapter 2	Supplemental ICA ref: Section 25-4
<b>A527.3 (g) Special tools</b> (g) A list of special tools needed.	ICA ref: N/A	Supplemental ICA ref: N/A



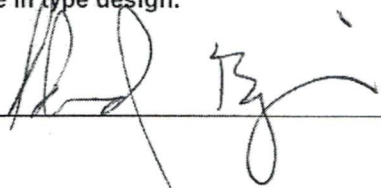
## MSI 53 – Review of Supplemental Instructions for Continued Airworthiness

### BLOCK 3

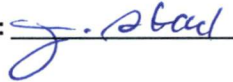
Note: The statement in block 5 does not constitute an approval of the Airworthiness Limitations Section. Airworthiness Limitations differ from other maintenance tasks, in that they are mandatory, as a direct condition of the approval of the type design. They are therefore referenced directly in the approval document itself. However, they must also be included in the Supplemental Instructions for Continued Airworthiness.

<b>A527.4 AWL - Separate Section 1</b> The Instructions for Continued Airworthiness must contain a section titled Airworthiness Limitations that is segregated and clearly distinguishable from the rest of the document. This section must set forth each mandatory replacement time, structural inspection interval, and related structural inspection procedure approved under 527.571. If the Instructions for Continued Airworthiness consist of multiple documents, the section required by this paragraph must be included in the principal manual. This section must contain a legible statement in a prominent location that reads: "The Airworthiness Limitations section is approved by the Minister and specifies maintenance required by any applicable airworthiness or operating rule unless an alternative program has been approved by the Minister."	ICA ref: Bell 206B Maintenance Manual, Chapter 4	Supplemental ICA ref: Section 4  ✓
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### BLOCK 4 – Applicant Statement of Compliance

The Supplemental ICA referenced above comprises the complete listing of supplemental ICA necessary to show compliance with the regulatory standard that supports this change in type design.	
Applicants Signature: 	Date: 30 November, 2010
Applicants Name: E. Burgoin, P.Eng, DAR 290M	

### BLOCK 5 – Minister's Statement of Acceptability

The design change is adequately supported by existing ICA and/or supplemental ICA, as identified above and is acceptable to the Minister.			
Reviewer's Name: Jack Staal	Phone # 780-495-5227	Email: <sup>Jack.staal</sup> @tc.gc.ca	Mail Routing Symbol: RAED
Signature: 	Date: 3 Dec 2010	NAPA Number	
Rev 0		C-10-0801	



# MSI 53 – Review of Supplemental Instructions for Continued Airworthiness

## NORMAL CATEGORY ROTORCRAFT – CAR 527

### BLOCK 1

Name of the applicant for the design change approval:	Aero Design Ltd.
Description of the design change:	Installation of Quick Release Step on Bell 206B
Certification Basis of design change and revision date:	CAR 6, Amdt. 6-4
CAR Standard A527.1(c) Program showing how changes to supplemental ICA made by the applicant or by the manufacturers of products and appliances installed in the aeroplane pursuant to the design change will be distributed:	Section 0-3 of Supplemental ICA (ICA 878.91)
CAR Standard 513.05 (1) (g) (iv): Installation Instructions:	Installation Drawing 87801

### BLOCK 2

Note: Enter "N/A" when no supplemental ICA are needed.

Regulatory Standard Reference Column 1	Design Approval Holder (DAH) ICA Reference Column 2	Applicant Means of Compliance Supplemental ICA Requirements Column 3
<b>A529.2 (a) Manual(s)</b> (a) The Instructions for Continued Airworthiness must be in the form of a manual or manuals as appropriate for the quantity of data to be provided.	ICA ref: Bell 206B Maintenance Manual, BHT-206B-MM	Supplemental ICA ref: Single Manual (ICA878.91)
<b>A529.2 (b) Practical arrangement</b> (b) The format of the manual or manuals must provide for a practical arrangement.	ICA ref: Bell 206B Maintenance Manual	Supplemental ICA ref: Arranged in ATA format
<b>A529.3</b> The Instructions for Continued Airworthiness must contain the following manuals or sections, as appropriate, and information:		
<b>A529.3 (a) Rotorcraft maintenance manual or section</b>		
<b>A529.3 (a) (1) (Introduction)</b> (1) Introduction information that includes an explanation of the rotorcraft's features and data to the extent necessary for maintenance or preventive maintenance.	ICA ref: Bell 206B Maintenance Manual, Chapter 1	Supplemental ICA ref: Section 0-1
<b>A529.3 (a) (2) (Description)</b> (2) A description of the rotorcraft and its systems and installations including its engines, rotors, and appliances.	ICA ref: Bell 206B Maintenance Manual, Chapter 1	Supplemental ICA ref: Section 0-5

### MSI 53 – Review of Supplemental Instructions for Continued Airworthiness

Regulatory Standard Reference Column 1	Design Approval Holder (DAH) ICA Reference Column 2	Applicant Means of Compliance Supplemental ICA Requirements Column 3
<b>A529.3 (a) (3) Control &amp; Operation</b> (3) Basic control and operation information describing how the rotorcraft components and systems are controlled and how they operate, including any special procedures and limitations that apply.	ICA ref: N/A	Supplemental ICA ref: N/A
<b>A529.3 (a) (4) Servicing</b> (4) Servicing information that covers details regarding servicing points, capacities of tanks, reservoirs, types of fluids to be used, pressures applicable to the various systems, location of access panels for inspection and servicing, locations of lubrication points, lubricants to be used, equipment required for servicing, tow instructions and limitations, mooring, jacking, and levelling information.	ICA ref: Bell 206B Maintenance Manual, Chapter 12	Supplemental ICA ref: N/A
<b>A529.3</b> The Instructions for Continued Airworthiness must contain the following manuals or sections, as appropriate, and information:		
<b>A529.3 (b) Maintenance Instructions.</b>		
<b>A529.3 (b) (1) Scheduling</b> 1) Scheduling information for each part of the rotorcraft and its engines, auxiliary power units, rotors, accessories, instruments, and equipment that provides the recommended periods at which they should be cleaned, inspected, adjusted, tested, and lubricated, and the degree of inspection, the applicable wear tolerances, and work recommended at these periods. However, the applicant may refer to an accessory, instrument, or equipment manufacturer as the source of this information if the applicant shows that the item has an exceptionally high degree of complexity requiring specialized maintenance techniques, test equipment, or expertise. The recommended overhaul periods and necessary cross-references to the Airworthiness Limitations section of the manual must also be included. In addition, the applicant must include an inspection program that includes the frequency and extent of the inspections necessary to provide for the continued airworthiness of the rotorcraft.	ICA ref: Bell 206B Maintenance Manual, Chapter 5	Supplemental ICA ref: Section 5-1
<b>A529.3 (b) (2) Troubleshooting</b> (2) Troubleshooting information describing probable malfunctions, how to recognize those malfunctions, and the remedial action for those malfunctions.	ICA ref: N/A	Supplemental ICA ref: N/A



**MSI 53 – Review of Supplemental Instructions for Continued Airworthiness**

<b>Regulatory Standard Reference Column 1</b>	<b>Design Approval Holder (DAH) ICA Reference Column 2</b>	<b>Applicant Means of Compliance Supplemental ICA Requirements Column 3</b>
<b>A529.3 (b) (3) Removal/replacement</b> (3) Information describing the order and method of removing and replacing products and parts with any necessary precautions to be taken.	ICA ref: Bell 206B Maintenance Manual, Chapter 32	Supplemental ICA ref: Section 25-1 thru 25-2
<b>A529.3 (b) (4) General</b> (4) Other general procedural instructions including procedures for system testing during ground running, symmetry checks, weighing and determining the center of gravity, lifting and shoring, and storage limitations.	ICA ref: Bell 206B Maintenance Manual, Chapter 7 and 8	Supplemental ICA ref: Section 25-3
<b>A529.3 (c) Access</b> (c) Diagrams of structural access plates and information needed to gain access for inspections when access plates are not provided.	ICA ref: N/A	Supplemental ICA ref: N/A
<b>A529.3 (d) Special inspections</b> (d) Details for the application of special inspection techniques including radiographic and ultrasonic testing where such processes are specified.	ICA ref: Bell 206B Maintenance Manual, Chapter 5	Supplemental ICA ref: Section 5-1
<b>A529.3 (e) Protective treatment</b> (e) Information needed to apply protective treatments to the structure after inspection.	ICA ref: Bell Standard Practices Manual BHT-ALL-SPM, Chapter 3	Supplemental ICA ref: Section 5-3
<b>A529.3 (f) Fasteners, torque values, etc</b> (f) All data relative to structural fasteners such as identification, discard recommendations, and torque values.	ICA ref: Bell Standard Practices Manual BHT-ALL-SPM, Chapter 2	Supplemental ICA ref: Section 25-4
<b>A529.3 (g) Special tools</b> (g) A list of special tools needed.	ICA ref: N/A	Supplemental ICA ref: N/A

## MSI 53 – Review of Supplemental Instructions for Continued Airworthiness

### BLOCK 3

Note: The statement in block 5 does not constitute an approval of the Airworthiness Limitations Section. Airworthiness Limitations differ from other maintenance tasks, in that they are mandatory, as a direct condition of the approval of the type design. They are therefore referenced directly in the approval document itself. However, they must also be included in the Supplemental Instructions for Continued Airworthiness.

#### A529.4 AWL - Separate Section 1

The Instructions for Continued Airworthiness must contain a section titled Airworthiness Limitations that is segregated and clearly distinguishable from the rest of the document. This section must set forth each mandatory replacement time, structural inspection interval, and related structural inspection procedure approved under 527.571. If the Instructions for Continued Airworthiness consist of multiple documents, the section required by this paragraph must be included in the principal manual. This section must contain a legible statement in a prominent location that reads: "The Airworthiness Limitations section is approved by the Minister and specifies maintenance required by any applicable airworthiness or operating rule unless an alternative program has been approved by the Minister."

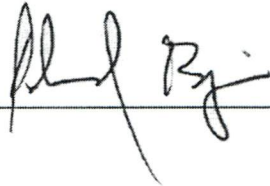
ICA ref: Bell 206B Maintenance Manual, Chapter 4

Supplemental ICA ref: Chapter 4

### BLOCK 4 – Applicant Statement of Compliance

The Supplemental ICA referenced above comprises the complete listing of supplemental ICA necessary to show compliance with the regulatory standard that supports this change in type design.

Applicants Signature: \_\_\_\_\_



Date: February 18, 2010

Applicants Name: E. Burgoin, P.Eng, DAR 290M

### BLOCK 5 – Minister's Statement of Acceptability

The design change is adequately supported by existing ICA and/or supplemental ICA, as identified above and is acceptable to the Minister.

Reviewer's Name: J. Nudi Phone # 780-495-5227 Email: Jack.staal@tc.gc.ca Mail Routing Symbol: RAED

Signature: J. Nudi Date: 3 Dec 2010 NAPA Number \_\_\_\_\_

Rev 0

C-10-0801





Alpine 206B, Cross tube bracket  
Spacing

$$24 \frac{7}{16} + 1 \frac{5}{8}$$

$$26 \frac{1}{16}$$

DOGS INSIDE X2





Transport  
Canada

Transports  
Canada

1100-9700 Jasper Avenue  
Edmonton, Alberta T5J 4E6

Your file      Votre reference

November 03, 2009

Our file      Notre reference  
C-09-0362  
SH09-5

Aero Design Ltd.  
2013 39th Avenue North East  
Calgary, Alberta  
Canada, T2E 6R7

**SUBJECT:      Approval of      Installation of External Attachment Provisions,  
Quick Release Mounting Provisions and Cargo  
Basket**  
**FAA STC:      SR02721NY**  
**Aircraft:      BELL 206B**  
**FAA STC Holder:      Aero Design Ltd.**

Enclosed is the original FAA Supplemental Type Certificate SR02721NY and information concerning your responsibility as a holder of a Supplemental Type Certificate SR02721NY issued to a Canadian Applicant.

FAA STC SR02721NY is based on Issue 1 of Canadian STC SH09-5.

Yours truly,

J. Staal  
Aircraft Certification Engineering Technologist  
Prairie and Northern Region  
Phone: 780-495-5227  
Facs: 780-495-7963

Encl.

**NEW ENGLAND REGION  
NEW YORK AIRCRAFT CERTIFICATION OFFICE  
1600 STEWART AVENUE, SUITE 410  
WESTBURY, NEW YORK 11590**

**INFORMATION CONCERNING YOUR RESPONSIBILITY AS HOLDER OF A  
SUPPLEMENTAL TYPE CERTIFICATE ISSUED TO A CANADIAN APPLICANT**

This STC is official indications of FAA approval of your installation and may be used to authorize identical installation on other aircraft of the same model, subject to the limitation noted in the STC. It may be transferred, or otherwise made available to another party by means of a licensee arrangement; however, you are requested to advise this office when you transfer or grant licensee rights to the STC in order that we may take the necessary recording or reissuance action.

If you plan to manufacture and sell parts for installation on type certificated aircraft, please review FAR 21.502, which is applicable to parts imported into the U.S.

A copy of the STC and required documents should accompany each kit and installation. Also, your attention is directed to the limitations and conditions specified in the STC.

As recipient of this approval, except as provided in FAR21.3(d), you are required to report any failure, malfunction, or defect in any product or part manufactured by you that you have determined has resulted or could result in any of the occurrences listed in FAR 21.3(c).

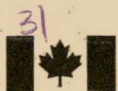
The report should be communicated initially by telephone and subsequently in writing to the Manager, New York Aircraft Certification Office, telephone (516) 228-7300, mailing address: 1600 Stewart Avenue, Suite 410, Westbury, New York 11590. This first contact should take place within 24 hours after it has been determined that the failure required to be reported has occurred.

FAA Form 8010-4, Malfunction or Defect Report, or any other appropriate format is acceptable in transmitting the required details.



Anthony Socias  
Manager,  
New York Aircraft Certification Office





Government  
of Canada

Gouvernement  
du Canada

FROM: ROUTING SYMBOL  
DE: SYMBOLE D'ACHEMINEMENT

RAED

ORIGINAL STC  
IN BINDER

AERO DESIGN LTD  
2013 39 AVENUE NE  
CALGARY AB T2E 6R7

Transport Canada  
1100 - 9700 Jasper Avenue  
Canada Place  
Edmonton AB T5J 4E6



PB031 1924061  
000320 MB5A0  
0327 130629



1410



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# DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>FABRICATION DOCUMENTS</b>		
70401	Open Forward End Modification (Bell 206L/407 Fixed and McDonnell Douglas MD600N Quick Release Only)	1
70402	Lid Door Modification	1
70403	Auxiliary Latch Modification	3
70404	Open Forward End Modification (Bell 206L/407 Quick Release Only)	1
70405	Lid Step Modification	2
70406	Open Forward End Modification (Eurocopter AS350/AS355 and Bell 206B Quick Release Only)	0
70407	Open Forward End Modification (Eurocopter EC135 Quick Release Only)	0
<b>ENGINEERING DOCUMENTS</b>		
ER704.02	Engineering Report	0
<b>APPROVAL:</b>		
 Transport Canada      Transports Canada <b>AIRCRAFT CERTIFICATION DIVISION</b> <b>APPROVED</b> By <i>[Signature]</i> Appr'l No. <u>SH09-5</u> Appr'l Date <u>09-03-20</u> Issue No. <u>1</u> Issue Date <u>09-03-20</u> <small>YY-MM-DD</small>		ORIGINAL DATE: 10 May 2006 REVISION DATE: 22 December 2008
SHEET 1 OF 1		<b>AERO DESIGN LTD.</b> 2013 - 39 <sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7 Ph. (403) 250-8027 Fax. (403) 250-8333
<b>DCL704</b>		Rev. <b>5</b>

# DOCUMENT CONTROL LIST


DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>FABRICATION DOCUMENTS</b>		
81110	Cargo Basket Assembly	0
81111	Basket Body Assembly	0
81112	Basket Lid Assembly	0
81127	Basket Components - Placard	0
80322	Basket Components - Hoop	0
80324	Basket Components - Attachment Hoop	0
49215	Basket Components - Spacer	0
49216	Basket Components - Spacer	0
36255	Handle Assembly	1
36261	Handle Bar Assembly	6
36262	Handle Bracket Assembly	1
36271	Handle Lever	1
36272	Basket Bracket	1
36273	Lid Bracket	1
36274	Bushing	1
36275	Bushing	2
36277	Handle Bar	0
36278	Spring	1
36280, Sheet 1	Brace	2
36280, Sheet 2	Brace	2
<b>ENGINEERING DOCUMENTS</b>		
ER803.01	Engineering Report	0
TR803.02	Test Report	0
<b>APPROVAL:</b>		
 Transport Canada TRANSPORTS Canada <b>AIRCRAFT CERTIFICATION DIVISION</b> <b>APPROVED</b> By <i>[Signature]</i> Appr'l No. <u>SH09-5</u> Appr'l Date <u>09-03-20</u> Issue No. <u>1</u> Issue Date <u>09-03-20</u> YY-MM-DD		ORIGINAL DATE: 22 December 2008 REVISION DATE:
SHEET 1 OF 1		<b>AERO DESIGN LTD.</b> 2013 - 39 <sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7 Ph. (403) 250-8117 Fax. (403) 250-8333
<b>Bell 206B</b> <b>Quick Release Cargo Basket Assembly (Long)</b>		Rev.
<b>DCL811-11</b>		<b>0</b>

# DOCUMENT CONTROL LIST







DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>INSTALLATION DOCUMENTS</b>		
81101	Quick Release Cargo Basket Installation	0
ICA803.90	Instructions for Continued Airworthiness	0
FMS803.91	Flight Manual Supplement	0
<b>FABRICATION DOCUMENTS</b>		
DCL811-11	Document Control List for Quick Release Cargo Basket	0
<b>ENGINEERING DOCUMENTS</b>		
<b>APPROVAL:</b>		
 Transport Canada      Transports Canada <b>AIRCRAFT CERTIFICATION DIVISION</b> <b>APPROVED</b> By <i>[Signature]</i> App'l No. <u>SH09-5</u> App'l Date <u>09-13-20</u> Issue No. <u>1</u> Issue Date <u>09-03-20</u> <small>YY-MM-DD</small>		ORIGINAL DATE: 22 December 2008 REVISION DATE:
SHEET 1 OF 1		<b>AERO DESIGN LTD.</b> 2013 - 39 <sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7 Ph. (403) 250-8027 Fax. (403) 250-8333
<b>DCL811-1</b>		Rev. <b>0</b>




# DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>FABRICATION DOCUMENTS</b>		
80310	Cargo Basket Assembly	0
80311	Basket Body Assembly	0
80312	Basket Lid Assembly	0
80322	Basket Components - Hoop	0
80323	Basket Components - Attachment Hoop	0
80324	Basket Components - Attachment Hoop	0
80327	Basket Components - Placard	0
49215	Basket Components - Spacer	0
49216	Basket Components - Spacer	0
36255	Handle Assembly	1
36261	Handle Bar Assembly	6
36262	Handle Bracket Assembly	1
36271	Handle Lever	1
36272	Basket Bracket	1
36273	Lid Bracket	1
36274	Bushing	1
36275	Bushing	2
36277	Handle Bar	0
36278	Spring	1
36280, Sheet 1	Brace	2
36280, Sheet 2	Brace	2
<b>ENGINEERING DOCUMENTS</b>		
ER803.01	Engineering Report	0
TR803.02	Test Report	0
<b>APPROVAL:</b>		
 Transport Canada      Transports Canada <b>AIRCRAFT CERTIFICATION DIVISION</b> <b>APPROVED</b> By <u>[Signature]</u> Appr'l No. <u>SH02-5</u> Appr'l Date <u>09-03-20</u> Issue No. <u>1</u> Issue Date <u>09-03-20</u> YY-MM-DD		ORIGINAL DATE: 22 December 2008 REVISION DATE:
SHEET 1 OF 1		<b>AERO DESIGN LTD.</b> 2013 - 39 <sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7 Ph. (403) 250-8037 Fax. (403) 250-8333
<b>Bell 206B</b> <b>Quick Release Cargo Basket Assembly (Medium)</b>		Rev.
<b>DCL803-11</b>		<b>0</b>

# DOCUMENT CONTROL LIST


DOCUMENT NO.	DOCUMENT CONTENT	REVISION									
<b>INSTALLATION DOCUMENTS</b>											
80301	Quick Release Cargo Basket Installation	0									
ICA803.90	Instructions for Continued Airworthiness	0									
FMS803.91	Flight Manual Supplement	0									
<b>FABRICATION DOCUMENTS</b>											
DCL803-11	Document Control List for Quick Release Cargo Basket	0									
<b>ENGINEERING DOCUMENTS</b>											
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<b>APPROVAL:</b>  Transport Canada  Transports Canada <b>AIRCRAFT CERTIFICATION DIVISION</b> <b>APPROVED</b> By <u>[Signature]</u> App'l No. <u>SH09-5</u> App'l Date <u>09-03-20</u> Issue No. <u>1</u> Issue Date <u>09-03-20</u> YY-MM-DD	ORIGINAL DATE: 22 December 2008  REVISION DATE:	<b>AERO DESIGN LTD.</b> 2013 - 39 <sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7 Ph. (403) 250-8027 Fax. (403) 250-8333									
	SHEET 1 OF 1	<b>Bell 206B</b> <b>Quick Release Cargo Basket</b> <b>Installation (Medium)</b>									
	<b>DCL803-1</b>										
	Rev. <b>0</b>										

# DOCUMENT CONTROL LIST


DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>FABRICATION DOCUMENTS</b>		
80210	Cargo Basket Assembly	0
80211	Basket Body Assembly	0
80212	Basket Lid Assembly	0
80227	Basket Components - Placard	0
80322	Basket Components - Hoop	0
80323	Basket Components - Attachment Hoop	0
49215	Basket Components - Spacer	0
49216	Basket Components - Spacer	0
36255	Handle Assembly	1
36261	Handle Bar Assembly	6
36262	Handle Bracket Assembly	1
36271	Handle Lever	1
36272	Basket Bracket	1
36273	Lid Bracket	1
36274	Bushing	1
36275	Bushing	2
36277	Handle Bar	0
36278	Spring	1
36280, Sheet 1	Brace	2
36280, Sheet 2	Brace	2
<b>ENGINEERING DOCUMENTS</b>		
ER803.01	Engineering Report	0
TR803.02	Test Report	0
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SHEET 1 OF 1		<p><b>Bell 206B</b></p> <p><b>Quick Release Cargo Basket Assembly (Short)</b></p>
<b>DCL802-11</b>		<p>Rev.</p> <p style="font-size: 2em;"><b>0</b></p>




# DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>INSTALLATION DOCUMENTS</b>		
80201	Quick Release Cargo Basket Installation	0
ICA803.90	Instructions for Continued Airworthiness	0
FMS803.91	Flight Manual Supplement	0
<b>FABRICATION DOCUMENTS</b>		
DCL802-11	Document Control List for Quick Release Cargo Basket	0
<b>ENGINEERING DOCUMENTS</b>		
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SHEET 1 OF 1		<p style="text-align: center; font-weight: bold;">Bell 206B</p> <p style="text-align: center; font-weight: bold;">Quick Release Cargo Basket Installation (Short)</p>
DCL802-1		0

# DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
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<b>ENGINEERING DOCUMENTS</b>  ER803.01 TR803.02	Engineering Report Test Report	0 0
<b>APPROVAL:</b>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">  <p>Transport Canada    Transports Canada</p> <p><b>AIRCRAFT CERTIFICATION DIVISION</b></p> <p><b>APPROVED</b></p> <p>By <i>[Signature]</i></p> <p>Appr'l No. <u>SH09-5</u></p> <p>Appr'l Date <u>09-03-20</u></p> <p>Issue No. <u>1</u></p> <p>Issue Date <u>09-03-20</u></p> <p>YY-MM-DD</p> </div> <div style="width: 30%;"> <p>ORIGINAL DATE: 22 December 2008</p> <p>REVISION DATE:</p> </div> <div style="width: 35%;"> <p><b>AERO DESIGN LTD.</b>            2013 - 39<sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7            Ph. (403) 250-8027            Fax. (403) 250-8393            www.aerodesign.ca</p> </div> </div>		
SHEET 1 OF 1		<b>Bell 206B</b> <b>Quick Release Mounting</b> <b>Provisions Fabrication</b>
<b>DCL497-12</b>		Rev.  <b>0</b>

# DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>INSTALLATION DOCUMENTS</b>		
49702	Quick Release Mounting Provisions Installation	0
ICA487.91	Instructions for Continued Airworthiness	0
<b>FABRICATION DOCUMENTS</b>		
DCL497-12	Document Control List for Quick Release Mounting Provisions Fabrication	0
<b>ENGINEERING DOCUMENTS</b>		
<b>APPROVAL:</b>		
 Transport Canada <b>AIRCRAFT CERTIFICATION DIVISION</b> <b>APPROVED</b> By <i>[Signature]</i> Appl No. <u>SH09-5</u> Appl Date <u>09-03-20</u> Issue No. <u>1</u> Issue Date <u>09-03-20</u> <small>YY-MM-DD</small>		ORIGINAL DATE: 22 December 2008 REVISION DATE:
SHEET 1 OF 1		<b>AERO DESIGN LTD.</b> 2013 - 39 <sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7 Ph. (403) 250-8027 Fax. (403) 250-8333 <a href="http://www.aerodesign.ca">www.aerodesign.ca</a>
<b>DCL497-2</b>		Rev. <b>0</b>



AERO DESIGN LTD.

FMS497.92

**I LIMITATIONS**

1. Attachment of any equipment to the External Attachment Provisions requires Transport Canada Approval.

**II NORMAL PROCEDURES**

1. No change from basic Approved Flight Manual.

**III EMERGENCY PROCEDURES**

1. No change from basic Approved Flight Manual.

**IV PERFORMANCE**

1. No change from basic Approved Flight Manual.

AERO DESIGN LTD.

FMS497.92

**BELL 206B****ROTORCRAFT FLIGHT MANUAL SUPPLEMENT**  
for the  
**INSTALLATION of EXTERNAL ATTACHMENT**  
**PROVISIONS**

Supplemental Type Certificate No. SH09-5

Sections I, II, III and IV of this document comprise the Transport Canada Approved sections of this Flight Manual Supplement. Compliance with Section I, Limitations, is mandatory.

Section V and any subsequent sections if present are Unapproved and are provided for information only.


The information and data contained in this Flight Manual Supplement supersede or supplement that contained in the basic Approved Flight Manual for the Bell 206B when fitted with External Attachment Provisions. For limitations, procedures and performance not listed in this Flight Manual Supplement, refer to the Approved Flight Manual and other approved Flight Manual Supplements.



Revision 0  
22 December, 2008


Page 1 of 2  
TRANSPORT CANADA APPROVED

# DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>FABRICATION DOCUMENTS</b>		
49720	Forward Fitting Fabrication	0
49721	Aft Saddle Fitting Fabrication	0
49740	Spacer Fabrication	0
49311	Forward Fitting Fabrication	4
<b>ENGINEERING DOCUMENTS</b>		
ER803.01	Engineering Report	0
TR803.02	Test Report	0
<b>APPROVAL:</b>		
 Transport Canada <b>AIRCRAFT CERTIFICATION DIVISION</b> <b>APPROVED</b> By <u>[Signature]</u> Appr'l No. <u>SH09-5</u> Appr'l Date <u>09-03-20</u> Issue No. <u>1</u> Issue Date <u>09-03-20</u> YY-MM-DD		ORIGINAL DATE: 22 December 2008 REVISION DATE:  <b>AERO DESIGN LTD.</b> 2013 - 39 <sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7 Ph. (403) 250-8027 Fax. (403) 250-8333 www.aerodesign.ca
SHEET 1 OF 1		<b>Bell 206B</b> <b>External Attachment</b> <b>Provisions Fabrication</b>
<b>DCL497-11</b>		Rev. <b>0</b>



# DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>INSTALLATION DOCUMENTS</b>		
49701	External Attachment Provisions Installation	0
49703	External Attachment Provisions Installation (Alternate)	0
ICA497.90	Instructions for Continued Airworthiness	0
FMS497.92	Flight Manual Supplement	0
<b>FABRICATION DOCUMENTS</b>		
DCL497-11	Document Control List for External Attachment Provisions Fabrication	0
<b>ENGINEERING DOCUMENTS</b>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p><b>APPROVAL:</b></p> <div style="border: 1px solid black; padding: 5px;">  <div style="display: flex; justify-content: space-between;"> <div>Transport Canada</div> <div>Transports Canada</div> </div> <p><b>AIRCRAFT CERTIFICATION DIVISION</b></p> <p style="text-align: center;"><b>APPROVED</b></p> <p>By <u>[Signature]</u></p> <p>Appr'l No. <u>SH02-5</u></p> <p>Appr'l Date <u>09-03-20</u></p> <p>Issue No. <u>1</u></p> <p>Issue Date <u>09-03-20</u></p> <p style="text-align: center;">YY-MM-DD</p> </div> </div> <div style="width: 40%;"> <p>ORIGINAL DATE: 22 December 2008</p> <p>REVISION DATE:</p> </div> <div style="width: 30%;"> <p><b>AERO DESIGN LTD.</b> 2013 - 39<sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7 Ph. (403) 250-8027 Fax. (403) 250-8333 www.aerodesign.ca</p> </div> </div>		
SHEET 1 OF 1		Rev.
<b>DCL497-1</b>		<b>0</b>

*(Continuation Sheet)*

Number: SH09-5 Issue 1

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NOTE: THIS ADDENDUM SHALL REMAIN PART OF THE CERTIFICATE REFERRED TO THEREIN.

---

**Cargo Basket Modifications:**

Modifications to the Cargo Basket configurations are eligible in accordance with Transport Canada approved, AERO Design Ltd. Document Control List DCL704, Revision 5, dated 22 December 2008, or later approved revision. Eligibility limitations are noted on the drawings.

**Data Pertinent to All External Cargo Basket Configurations (C, D, E):**

Transport Canada approved, AERO Design Ltd. Flight Manual Supplement FMS803.91, Revision 0, dated 18 December 2008, or later accepted revision is required with this installation.

Transport Canada accepted, AERO Design Ltd. Instructions for Continued Airworthiness ICA803.90, Revision 0, dated 18 December 2008, or later accepted revision is required with this installation.

**Basis of Certification:**

Basis of certification remains as defined in the applicable Type Certificate Data Sheets.

— End —

*(Continuation Sheet)*

Number: SH09-5 Issue 1

NOTE: THIS ADDENDUM SHALL REMAIN PART OF THE CERTIFICATE REFERRED TO THEREIN.

---

**Configuration B - Quick Release Mounting Provisions:**

Installation of Configuration A, External Attachment Provisions, is a prerequisite for installation of Configuration B, Quick Release Mounting Provisions. Installation of Quick Release Mounting Provisions to be completed in accordance with Transport Canada approved, AERO Design Ltd. Document Control List DCL497-2, Revision 0, dated 22 December 2008, or later approved revision.

Transport Canada accepted, AERO Design Ltd. Instructions for Continued Airworthiness KCA497.91, Revision 0, dated 22 December 2008, or later accepted revision is required with this installation.

Quick Release Mounting Provisions installed in accordance with DCL497-2 may remain installed if a cargo basket configuration is removed.

**Configuration C - External Cargo Basket (Short Basket):**

Installation of Configuration A, External Attachment Provisions, and Configuration B, Quick Release Mounting Provisions, are prerequisite for installation of Configuration C, External Cargo Basket Installation. Installation of Quick Release Cargo Basket to be completed in accordance with Transport Canada approved, AERO Design Ltd. Document Control List, DCL802-1, Revision 0, dated 22 December 2008, or later approved revision.

**Configuration D - External Cargo Basket (Medium Basket):**

Installation of Configuration A, External Attachment Provisions, and Configuration B, Quick Release Mounting Provisions, are prerequisite for installation of Configuration D, External Cargo Basket Installation. Installation of Quick Release Cargo Basket to be completed in accordance with Transport Canada approved, AERO Design Ltd. Document Control List, DCL803-1, Revision 0, dated 22 December 2008, or later approved revision.

**Configuration E - External Cargo Basket (Long Basket):**

Installation of Configuration A, External Attachment Provisions, and Configuration B, Quick Release Mounting Provisions, are prerequisite for installation of Configuration E, External Cargo Basket Installation. Installation of Quick Release Cargo Basket to be completed in accordance with Transport Canada approved, AERO Design Ltd. Document Control List, DCL811-1, Revision 0, dated 22 December 2008, or later approved revision.

...See Continuation Sheet





Transport Canada Transp Canada

## Department of Transport

*Supplemental Type Certificate*

This approval is issued to:

Aero Design Ltd.  
2013 39th Avenue North East  
Calgary, Alberta  
Canada T2E 6R7

**Number:** SH09-5**Issue No.:** 1**Approval Date:** March 20, 2009**Issue Date:** March 20, 2009**Responsible Office:**

Prairie and Northern

**Aircraft/Engine Type or Model:**

BELL 206B

**Canadian Type Certificate or Equivalent:**

H-92

**Description of Type Design Change:**

Installation of External Attachment Provisions, Quick Release Mounting Provisions and Cargo Basket

**Installation/Operating Data,  
Required Equipment and Limitations:**

**Configuration A - External Attachment Provisions Only:**

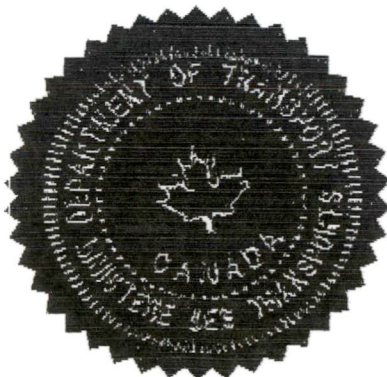
Installation of External Attachment Provisions to be completed in accordance with Transport Canada approved, AERO Design Ltd. Document Control List, DCL497-1, Revision 0, dated 22 December 2008, or later approved revision.

Transport Canada approved, AERO Design Ltd. Flight Manual Supplement FMS497.92, Revision 0, dated 22 December 2008, or later approved revision is required with this installation.

Transport Canada accepted, AERO Design Ltd. Instructions for Continued Airworthiness CA497.90, Revision 0, dated 18 December 2008, or later accepted revision is required with this installation.

External Attachment Provisions installed in accordance with DCL497-1 may remain installed if any other configuration is removed.

...See Continuation Sheet




**Conditions:** This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.


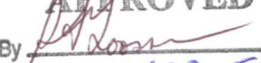
R.A. Goossens  
For Minister of Transport

**Canada**

# DOCUMENT CONTROL LIST


DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>FABRICATION DOCUMENTS</b>		
70401	Open Forward End Modification (Bell 206L/407 Fixed and McDonnell Douglas MD600N Quick Release Only)	1
70402	Lid Door Modification	1
70403	Auxiliary Latch Modification	3
70404	Open Forward End Modification (Bell 206L/407 Quick Release Only)	1
70405	Lid Step Modification	2
70406	Open Forward End Modification (Eurocopter AS350/AS355 and Bell 206B Quick Release Only)	0
70407	Open Forward End Modification (Eurocopter EC135 Quick Release Only)	0
 <b>ENGINEERING DOCUMENTS</b>		
ER704.02	Engineering Report	0
 <b>APPROVAL:</b>		
 <div style="display: flex; justify-content: space-between; font-size: small;"> <span>Transport Canada</span> <span>Transports Canada</span> </div> <div style="text-align: center; font-weight: bold; margin-top: 5px;"> AIRCRAFT CERTIFICATION DIVISION APPROVED </div> <div style="font-size: x-small; margin-top: 5px;"> By <u>[Signature]</u>  Appr'l No. <u>SH09-5</u>  Appr'l Date <u>09-03-20</u>  Issue No. <u>1</u>  Issue Date <u>09-03-20</u>  YY-MM-DD </div>	ORIGINAL DATE: 10 May 2006  REVISION DATE: 22 December 2008	<div style="text-align: center; font-weight: bold; font-size: large;">AERO DESIGN LTD.</div> <div style="font-size: x-small; text-align: center;"> 2013 - 39<sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7  Ph. (403) 250-8027  Fax. (403) 250-8333 </div>
	SHEET 1 OF 1	Cargo Basket Modifications
	DCL704	5

# DOCUMENT CONTROL LIST


DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>FABRICATION DOCUMENTS</b>		
81110	Cargo Basket Assembly	0
81111	Basket Body Assembly	0
81112	Basket Lid Assembly	0
81127	Basket Components - Placard	0
80322	Basket Components - Hoop	0
80324	Basket Components - Attachment Hoop	0
49215	Basket Components - Spacer	0
49216	Basket Components - Spacer	0
36255	Handle Assembly	1
36261	Handle Bar Assembly	6
36262	Handle Bracket Assembly	1
36271	Handle Lever	1
36272	Basket Bracket	1
36273	Lid Bracket	1
36274	Bushing	1
36275	Bushing	2
36277	Handle Bar	0
36278	Spring	1
36280, Sheet 1	Brace	2
36280, Sheet 2	Brace	2
<b>ENGINEERING DOCUMENTS</b>		
ER803.01	Engineering Report	0
TR803.02	Test Report	0
<b>APPROVAL:</b>		
 <div style="display: inline-block; vertical-align: middle; text-align: center;">             Transport Canada           </div> <div style="display: inline-block; vertical-align: middle; text-align: center;">             Transports Canada           </div>		<b>AERO DESIGN LTD.</b> 2013 - 39 <sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7 Ph. (403) 250-8117 Fax. (403) 250-8333
<b>AIRCRAFT CERTIFICATION DIVISION</b> <b>APPROVED</b> By  Appr'l No. <u>SH09-5</u> Appr'l Date <u>09-03-20</u> Issue No. <u>1</u> Issue Date <u>09-03-20</u> <small>YY - MM - DD</small>		ORIGINAL DATE: 22 December 2008 REVISION DATE:  SHEET 1 OF 1
<h2 style="margin: 0;">DCL811-11</h2>		<b>Bell 206B</b> <b>Quick Release Cargo Basket</b> <b>Assembly (Long)</b> Rev. <span style="font-size: 2em; font-weight: bold;">0</span>




# DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>FABRICATION DOCUMENTS</b>		
80210	Cargo Basket Assembly	0
80211	Basket Body Assembly	0
80212	Basket Lid Assembly	0
80227	Basket Components - Placard	0
80322	Basket Components - Hoop	0
80323	Basket Components - Attachment Hoop	0
49215	Basket Components - Spacer	0
49216	Basket Components - Spacer	0
36255	Handle Assembly	1
36261	Handle Bar Assembly	6
36262	Handle Bracket Assembly	1
36271	Handle Lever	1
36272	Basket Bracket	1
36273	Lid Bracket	1
36274	Bushing	1
36275	Bushing	2
36277	Handle Bar	0
36278	Spring	1
36280, Sheet 1	Brace	2
36280, Sheet 2	Brace	2
<b>ENGINEERING DOCUMENTS</b>		
ER803.01	Engineering Report	0
TR803.02	Test Report	0
<b>APPROVAL:</b>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">  <p>Transport Canada    Transports Canada</p> <p><b>AIRCRAFT CERTIFICATION DIVISION</b></p> <p><b>APPROVED</b></p> <p>By <u>[Signature]</u></p> <p>Appr'l No. <u>5H09-5</u></p> <p>Appr'l Date <u>09-03-20</u></p> <p>Issue No. <u>1</u></p> <p>Issue Date <u>09-03-20</u></p> <p style="font-size: small;">YY-MM-DD</p> </div> <div style="width: 40%;"> <p>ORIGINAL DATE: 22 December 2008</p> <p>REVISION DATE:</p> </div> <div style="width: 30%; text-align: center;"> <p><b>AERO DESIGN LTD.</b></p> <p>2013 - 39<sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7</p> <p>Ph. (403) 250-8027</p> <p>Fax. (403) 250-8333</p> </div> </div>		
<p>SHEET 1 OF 1</p>		<p><b>Bell 206B</b></p> <p><b>Quick Release Cargo Basket Assembly (Short)</b></p>
DCL802-11		<p>Rev.</p> <p style="font-size: 2em; font-weight: bold;">0</p>

# DOCUMENT CONTROL LIST


DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>FABRICATION DOCUMENTS</b>		
80310	Cargo Basket Assembly	0
80311	Basket Body Assembly	0
80312	Basket Lid Assembly	0
80322	Basket Components - Hoop	0
80323	Basket Components - Attachment Hoop	0
80324	Basket Components - Attachment Hoop	0
80327	Basket Components - Placard	0
49215	Basket Components - Spacer	0
49216	Basket Components - Spacer	0
36255	Handle Assembly	1
36261	Handle Bar Assembly	6
36262	Handle Bracket Assembly	1
36271	Handle Lever	1
36272	Basket Bracket	1
36273	Lid Bracket	1
36274	Bushing	1
36275	Bushing	2
36277	Handle Bar	0
36278	Spring	1
36280, Sheet 1	Brace	2
36280, Sheet 2	Brace	2
<b>ENGINEERING DOCUMENTS</b>		
ER803.01	Engineering Report	0
TR803.02	Test Report	0
<b>APPROVAL:</b>		
 <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <b>Transport Canada</b>  <b>TRANSPORTS Canada</b>  <b>AIRCRAFT CERTIFICATION DIVISION</b>  <b>APPROVED</b>  By <u>[Signature]</u>  Appr'l No. <u>SH02-5</u>  Appr'l Date <u>09-03-20</u>  Issue No. <u>1</u>  Issue Date <u>09-03-20</u>  YY-MM-DD </div>		ORIGINAL DATE: 22 December 2008  REVISION DATE:
SHEET 1 OF 1		<b>AERO DESIGN LTD.</b> 2013 - 39 <sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7 Ph. (403) 250-8037 Fax. (403) 250-8333  <b>Bell 206B</b> <b>Quick Release Cargo Basket Assembly (Medium)</b>
DCL803-11		0



# DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>FABRICATION DOCUMENTS</b>		
49730 49731	Forward Beam Fabrication Aft Beam Fabrication	0 0
<b>ENGINEERING DOCUMENTS</b>		
ER803.01 TR803.02	Engineering Report Test Report	0 0
<b>APPROVAL:</b>		
 <div style="display: flex; justify-content: space-between; font-size: small;"> <span>Transport Canada</span> <span>Transports Canada</span> </div> <div style="text-align: center; margin-top: 5px;"> <b>AIRCRAFT CERTIFICATION DIVISION</b>  <b>APPROVED</b>            By <u><i>[Signature]</i></u>            Appr'l No. <u>5H09-5</u>            Appr'l Date <u>09-03-20</u>            Issue No. <u>1</u>            Issue Date <u>09-03-20</u>  <small>YY - MM - DD</small> </div>	ORIGINAL DATE: 22 December 2008  REVISION DATE:	<div style="text-align: center;"> <b>AERO DESIGN LTD.</b>  <small>2013 - 39<sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7              Ph. (403) 250-8027              Fax. (403) 250-8333  <a href="http://www.aerodesign.ca">www.aerodesign.ca</a></small> </div>
	SHEET 1 OF 1	<div style="text-align: center;"> <b>Bell 206B</b>  <b>Quick Release Mounting</b>  <b>Provisions Fabrication</b> </div>
	DCL497-12	



# DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION	
<b>FABRICATION DOCUMENTS</b>			
49720	Forward Fitting Fabrication	0	
49721	Aft Saddle Fitting Fabrication	0	
49740	Spacer Fabrication	0	
49311	Forward Fitting Fabrication	4	
 <b>ENGINEERING DOCUMENTS</b>			
ER803.01	Engineering Report	0	
TR803.02	Test Report	0	
<b>APPROVAL:</b>			
 <div style="display: flex; justify-content: space-between;"> <div>Transport Canada</div> <div>Transports Canada</div> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <b>AIRCRAFT CERTIFICATION DIVISION</b>  <div style="text-align: center; font-weight: bold; font-size: 1.2em;">APPROVED</div> By <u><i>[Signature]</i></u>  Appr'l No. <u>SH09-5</u>  Appr'l Date <u>09-03-20</u>  Issue No. <u>1</u>  Issue Date <u>09-03-20</u>  <small>YY-MM-DD</small> </div>	ORIGINAL DATE: 22 December 2008  REVISION DATE:	<div style="text-align: center; font-weight: bold; font-size: 1.2em;">AERO DESIGN LTD.</div> 2013 - 39 <sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7 Ph. (403) 250-8027 Fax. (403) 250-8333 <a href="http://www.aerodesign.ca">www.aerodesign.ca</a>	
	SHEET 1 OF 1	<b>Bell 206B</b> <b>External Attachment</b> <b>Provisions Fabrication</b>	
	DCL497-11		Rev.  <div style="font-size: 2em; font-weight: bold;">0</div>

MODIFICATION APPROVAL REQUEST APPLICATION FORM						MOD803, Rev. 0
1. NAME AND ADDRESS OF APPLICANT: AERO Design Ltd. 2013 - 39th Avenue NE Calgary, Alberta T2E 6R7			2. IDENTIFICATION OF PRODUCT MAKE: Bell MODEL: 206B C-09-0006			
ALL CORRESPONDANCE TO: AERO Design Ltd. 2013 - 39th Avenue NE Calgary, Alberta T2E 6R7			SERIAL No.: All eligible	REGISTRATION: All eligible		
3. REQUEST FOR: A. SUPPLEMENTAL TYPE CERTIFICATE (STC) <input checked="" type="checkbox"/> C-09-0006 B. STC/STA REVISION <input type="checkbox"/> STC/STA No. C. LIMITED SUPPLEMENTAL TYPE CERTIFICATE (LSTC) <input type="checkbox"/> D. LIMITED STC/STA REVISION <input type="checkbox"/> LSTC/LSTA No. E. F.A.A. SUPPLEMENTAL TYPE CERTIFICATE <input type="checkbox"/> F. F.A.A. STC REVISION <input type="checkbox"/> STC No. G. FAMILIARIZATION OF F.A.A. STC <input type="checkbox"/> STC No. H. REPAIR DESIGN APPROVAL (RDC) <input type="checkbox"/> I. PARTS DESIGN APPROVAL (PDA) <input type="checkbox"/>						
4. TITLE OF MODIFICATION OR REPAIR: External Attachment Provisions Installation; Quick Release Mounting Provisions Installation; Quick Release Cargo Basket Installation						
5. BRIEF DESCRIPTION OF MODIFICATION OR REPAIR: Installation of external attachment provisions that replace the landing gear support in the front, and the landing gear saddle strap in the back. Installation of Quick Release Mounting Provisions consisting of mounting beams that incorporate the release mechanism onto the external attachment provisions. Installation of Quick Release Cargo Basket on the Mounting Provisions.						
6. APPLICABLE TYPE APPROVAL (TA) OR TYPE CERTIFICATE (TC) DOCUMENTS: A. TA NO. H-92 B. TC No. C. OTHER						
7. PROPOSED BASIS OF APPROVAL: A. SAME AS TA <input checked="" type="checkbox"/> B. SAME AS TC <input type="checkbox"/> C. OTHER <input type="checkbox"/> (Please specify)						
8. DOCUMENTATION CHECKLIST						
		REQUIRED		FOR DOT USE ONLY		
		YES	NO	RECEIVED	DATE	
COMPLIANCE PROGRAM		X		✓		
MASTER DRAWING LIST		X		✓		
FLIGHT MANUAL SUPPLEMENT		X		✓		
MAINTENANCE MANUAL SUPPLEMENT			X			
INSTRUCTIONS FOR CONTINUING AIRWORTHINESS		X		✓		
ENGINEERING REPORTS		X		✓		
DESIGN DRAWINGS			X			
MANUFACTURE DRAWINGS & INSTALLATION INSTRUCTIONS		X		✓		
ELECTRICAL LOAD ANALYSIS			X			
DRAFT STC, LSTC OR RDA			X			
WEIGHT AND MOMENT CHANGE		X		✓		
FLIGHT TEST DATA		X		✓		
OTHER (Specify)						
9. APPLICANT'S REMARKS:						
10. In addition to the payment of Aircraft Certification approval fees as prescribed in Canadian Aviation Regulations (CAR) Section 104, I agree to reimburse Transport Canada incremental expenses as in Aviation Regulation Directive No. 3, or equivalent, as applicable. For further details governing cost recovery, refer to AMA 513/4.						
PER: 		Consultant		6 January, 2009		
SIGNATURE OF APPLICANTS		TITLE		DATE		
11. 						
SIGNATURE OF REGIONAL ENGINEERING TEAM						
13 JAN 2009						
DATE						



Transport  
Canada

Transports  
Canada

1100-9700 Jasper Avenue  
Edmonton, Alberta T5J 4E6

March 24, 2009

Your file      Votre référence  
803

Our file      Notre référence  
C-09-0006  
SH09-5

Aero Design Ltd.  
2013 39th Avenue N.E.  
Calgary, Alberta  
Canada, T2E 6R7

**SUBJECT:      SUPPLEMENTAL TYPE CERTIFICATE NO. SH09-5 – ISSUE 1 DATED  
MARCH 20, 2009 – INSTALLATION OF EXTERNAL ATTACHMENT  
PROVISIONS, QUICK RELEASE MOUNTING PROVISIONS AND CARGO  
BASKET – BELL 206B – ISSUED TO AERO DESIGN LTD.**

This Supplemental Type Certificate (STC) is issued in response to your application. Included with the STC are the documents bearing the original Transport Canada signatures.

The transfer of this SH09-5 in the name of another person requires the prior approval from the Minister in accordance with Canadian Aviation Regulations (CAR) 513.25.

The requirements of CAR 561 apply where parts are manufactured and offered for sale. The provisions of CAR 571.06(4) should also be consulted.

A Canadian holder is required to report any service problem experienced with their product. Therefore, should you become aware of any defect, malfunction or failure resulting from the design change, it is your responsibility to submit a Service Difficulty Report to Transport Canada in accordance with CAR V, Subpart 91.

Yours truly,

J. Staal  
Aircraft Certification Engineering Technologist  
Prairie and Northern Region  
Phone: 780-495-5227  
Facs: 780-495-7963

Encl.



## MODIFICATION APPROVAL REQUEST APPLICATION FORM

MOD803, Rev. 1

## 1. NAME AND ADDRESS OF APPLICANT:

AERO Design Ltd.  
2013 - 39th Avenue NE  
Calgary, Alberta, Canada  
T2E 6R7

## 2. IDENTIFICATION OF PRODUCT

C-09-0362

## MAKE:

Bell Helicopter (Textron)

## MODEL:

206B, 206B-1

## ALL CORRESPONDANCE TO:

AERO Design Ltd.  
2013 - 39th Avenue NE  
Calgary, Alberta, Canada  
T2E 6R7

## SERIAL No.:

All eligible

## REGISTRATION:

All eligible

## 3. REQUEST FOR:

A. SUPPLEMENTAL TYPE CERTIFICATE (STC) ☐B. STC/STA REVISION ☐

STC/STA No.

C. LIMITED SUPPLEMENTAL TYPE CERTIFICATE (LSTC) ☐D. LIMITED STC/STA REVISION ☐

LSTC/LSTA No.

E. F.A.A. SUPPLEMENTAL TYPE CERTIFICATE ☒F. F.A.A. STC REVISION ☐

STC No.

G. FAMILIARIZATION OF F.A.A. STC ☐

STC No.

H. REPAIR DESIGN APPROVAL (RDC) ☐I. PARTS DESIGN APPROVAL (PDA) ☐

## 4. TITLE OF MODIFICATION OR REPAIR:

Quick Release Cargo Basket Installation

## 5. BRIEF DESCRIPTION OF MODIFICATION OR REPAIR:

Provisions for mounting the Cargo Basket are installed by replacement of the landing gear saddles, with new saddles that incorporate additional hardware. Steel support beams attach to the fasteners in the provisions. The steel frame and mesh basket attaches to the support beams, to carry cargo externally. The basket can be mounted and removed from the beams without tools.

## 6. APPLICABLE TYPE APPROVAL (TA) OR TYPE CERTIFICATE (TC) DOCUMENTS:

A. TA NO. \_\_\_\_\_

B. TC No. H2SW

C. OTHER \_\_\_\_\_

## 7. PROPOSED BASIS OF APPROVAL:

A. SAME AS TA ☐B. SAME AS TC ☒C. OTHER ☐

(Please specify) \_\_\_\_\_

## 8.

## DOCUMENTATION CHECKLIST

## REQUIRED

## FOR DOT USE ONLY

## RECEIVED

YES

NO

YES

NO

DATE

COMPLIANCE PROGRAM ☒MASTER DRAWING LIST ☒FLIGHT MANUAL SUPPLEMENT ☒MAINTENANCE MANUAL SUPPLEMENT ☐INSTRUCTIONS FOR CONTINUING AIRWORTHINESS ☒ENGINEERING REPORTS ☒DESIGN DRAWINGS ☐MANUFACTURE DRAWINGS & INSTALLATION INSTRUCTIONS ☒ELECTRICAL LOAD ANALYSIS ☐DRAFT STC, LSTC OR RDA ☐WEIGHT AND MOMENT CHANGE ☒FLIGHT TEST DATA ☒OTHER (Specify) ☐

## 9. APPLICANT'S REMARKS:

STC based on Transport Canada STC # SH09-5

## 10. In addition to the payment of Aircraft Certification approval fees as prescribed in Canadian Aviation Regulations (CAR) Section 104, I agree to reimburse Transport Canada incremental expenses as in Aviation Regulation Directive No. 3, or equivalent, as applicable. For further details governing cost recovery, refer to AMA 513/4.

AERO Design Ltd.

PER: \_\_\_\_\_

Consultant

1 April, 2009

SIGNATURE OF APPLICANTS

TITLE

DATE

## 11.

SIGNATURE OF REGIONAL ENGINEERING TECH.

DATE

**Steven Fahey**

**From:** "Austen, David" <david.austen@tc.gc.ca>  
**To:** "Steven Fahey" <steve@aerodesign.ca>  
**Sent:** Wednesday, September 09, 2009 12:28 PM  
**Subject:** RE: Status of STC applications @ FAA

Hi Steve:

Nothing yet, so I just gave them a gentle nudge....

Cheers!

David Austen, FEC, P.Eng.

Aircraft Certification | Certification des aeronefs

(780) 495-5226 | Facs/telec: (780) 495 7963

To provide feedback to TCCA, use CAIRS.

See: <http://www.tc.gc.ca/CivilAviation/ManagementServices/QA/cairs.htm>

Pour tout commentaire à TCAC, utiliser CAIRS.

Voir: <<http://www.tc.gc.ca/AviationCivile/ServicesdeGestion/AQ/ssqac.htm>>

---

**From:** Steven Fahey [mailto:steve@aerodesign.ca]

**Sent:** 09 September, 2009 2:28 PM

**To:** Austen, David

**Subject:** Re: Status of STC applications @ FAA

Hello Dave,

Have you heard back from them?

Steve

----- Original Message -----

**From:** Austen, David

**To:** Steven Fahey

**Cc:** Anthony.Troia@faa.gov ; raymond.reinhardt@faa.gov

**Sent:** Monday, August 24, 2009 8:22 AM

**Subject:** RE: Status of STC applications @ FAA

Thx for the note, Steven.

Anthony:

Can we enlist your assistance to let us know where the following applications stand?

I apologise for not having the FAA project number handy at this point.

Best regards,

David Austen, FEC, P.Eng.

Aircraft Certification | Certification des aeronefs

(780) 495-5226 | Facs/telec: (780) 495 7963

To provide feedback to TCCA, use CAIRS.

See: <http://www.tc.gc.ca/CivilAviation/ManagementServices/QA/cairs.htm>

Pour tout commentaire à TCAC, utiliser CAIRS.

Voir: <<http://www.tc.gc.ca/AviationCivile/ServicesdeGestion/AQ/ssqac.htm>>

---

**From:** Steven Fahey [mailto:[steve@aerodesign.ca](mailto:steve@aerodesign.ca)]

**Sent:** 21 August, 2009 12:00 PM

**To:** Austen, David

**Subject:** Status of STC applications @ FAA

Hi Dave,

I'd like to check in on any news from the FAA. We have several STC applications open:

Cargo baskets for the

Bell 212/205 SH07-56

Bell 206B SH09-5

Bell 407/206L SH00-48 (SR02253NY)

MD600N SH09-1

Destiny/Kodiak SH02-17 (SR01655NY)

Thanks,

Steven Fahey

[steve@aerodesign.ca](mailto:steve@aerodesign.ca)

Aero Design Ltd.

2013 - 39th Avenue NE

Calgary, Alberta, Canada

T2E 6R7

tel: (403) 250-8027

fax: (403) 250-8333

[www.aerodesign.ca](http://www.aerodesign.ca)





Transport  
Canada

Transports  
Canada

1100 - 9700 Jasper Avenue  
Edmonton, Alberta, T5J 4E6  
Canada

April 21, 2009

Your file      Votre référence

Our file      Notre référence

C-09-0362  
SH09-5

Department of Transportation  
Federal Aviation Administration  
New York Aircraft Certification Office  
1600 Stewart Avenue, Suite 410  
Westbury, NY 11590  
USA

**Attn: Mr. A. Socias, Manager**

**SUBJECT:      Application for FAA Supplemental Type Certificate  
Installation of Quick Release Provision; Cargo Basket; Step**

We have received an application from a Canadian applicant, Aero Design Ltd., for the issue of a Canadian Supplemental Type Certificate (STC) and an FAA STC to cover installation of Quick Release Provisions, Cargo Basket, and Step on Bell 206B series of rotorcraft.

We have reviewed the applicant's submission and hereby certify that the design change complies with the basis of certification specified in Canadian Type Certificate H-92. We have therefore issued STC SH09-5, issue 1, dated March 20, 2009. We also confirm that compliance is demonstrated with FAA Type Certificate H2SW, unless additional technical conditions are applied by the FAA.

Please consider this to be a formal application for an FAA STC under the provisions of the Canada-U.S. Bilateral Airworthiness Agreement. In support of this application, the following are enclosed:

1. FAA Form 8110-12, dated April 1, 2009,
2. Copy of STC SH09-5, issue 1, dated March 20, 2009,
3. Compliance Program CP803, dated January 09, 2009,
4. Master Drawing Lists DCL802-1, DCL803-1, DCL811-1,
5. Flight Manual Supplements FMS497.92, FMS803.91, approved March 20, 2009,
6. Instructions for Continued Airworthiness, ICA803.90, dated December 18, 2008.

Additional supporting documents are attached, as listed in the attached letter from Aero Design Ltd., dated 1 April, 2009. PDF copies of all documents are included in the CD-ROM disc.

Yours truly,

J. Staal  
Aircraft Certification Engineering Technologist  
Prairie and Northern Region  
Phone: 780-495-5227  
Facs: 780-495-7963

**enclosures**

cc:      Aero Design Ltd.

**Canada**

**Steven Fahey**

---

**From:** "Jeff Clarke" <jeff@aerodesign.ca>  
**To:** "Steven" <steve@aerodesign.ca>  
**Sent:** Wednesday, April 22, 2009 6:00 AM  
**Subject:** FW: FAA Applications - 206B and 600N - Quick Release....

-----Original Message-----

From: Staal, Jack [mailto:jack.staal@tc.gc.ca]  
Sent: April 21, 2009 3:55 PM  
To: [jeff@aerodesign.ca](mailto:jeff@aerodesign.ca)  
Subject: FAA Applications - 206B and 600N - Quick Release....

Jeff,

The FAA letters re 206B and 600N FAA STC applications were were dated/mailed today.

Thanks for prepping the letters.

Regards,

J.H. (Jack) Staal  
Aircraft Certification Technologist | Technologue, Certification des  
aeronefs.  
Prairie and Northern Region | Region des Prairies et du Nord

Telephone | telephone: (780)495-5227  
Facsimilie | telecopier: (780)495-7963  
Email | courriel: [jack.staal@tc.gc.ca](mailto:jack.staal@tc.gc.ca)  
TTY / ATS : 1-888-675-6863

Transport Canada | Transports Canada  
1100- 9700, Jasper Avenue | avenue Jasper (RAED)  
Edmonton, AB T5J 4E6  
Government of Canada | Gouvernement du Canada  
To provide feedback to TCCA, use CAIRS. See:  
<<http://www.tc.gc.ca/CivilAviation/ManagementServices/QA/cairs.htm>>

Pour tout commentaire a TCAC, utiliser CAIRS. Voir  
<<http://www.tc.gc.ca/AviationCivile/ServicesdeGestion/AQ/ssqac.htm>>

**AERO DESIGN LTD.**

2013 - 39 Avenue N.E., Calgary, Alberta, T2E 6R7

Tel: 403-250-8027

Fax: 403-250-8333

www.aerodesign.ca

1 April, 2009

Transport Canada  
Aircraft Certification Division  
800-1601 Airport Road  
Calgary, Alberta  
T2E 6Z8

Attn: Jack Staal

File : SH09-5

Re: FAA STC Application for Bell 206B series Cargo Basket

Jack,

Please forward the following documents to the appropriate office of the FAA:

FAA STC Application Form	8110.12	
Modification Approval Request Application Form	MOD803	Rev. 1
Supplemental Type Certificate (TCCA)	SH09-5	Issue 1
Compliance Program	CP803	Rev. 0
Document Control List - Short Basket	DCL802-1	Rev. 1
Document Control List	DCL802-11	Rev. 0
Document Control List - Medium Basket	DCL803-1	Rev. 0
Document Control List	DCL803-11	Rev. 0
Document Control List - Long Basket	DCL811-1	Rev. 0
Document Control List	DCL811-11	Rev. 0
Document Control List - Provisions	DCL497-1	Rev. 0
Document Control List	DCL497-2	Rev. 0
Flight Manual Supplement - Provisions only	FMS 497.92	Rev. 0
Flight Manual Supplement - Cargo Basket	FMS 803.91	Rev. 0
Instructions for Continued Airworthiness	ICA 803.90	Rev. 0
Engineering Report	ER 803.01	Rev. 0
Engineering Report - Load Test	TR 803.02	Rev. 0
Flight Test Report (Transport Canada Pilot's report)	FTR	
External Attachment Provisions Installation Drawing	49701	Rev. 0
External Attachment Provisions Installation Drawing	49702	Rev. 0
External Attachment Provisions Installation Drawing	49703	Rev. 0
Cargo Basket Installation Drawing	80201	Rev. 0
Cargo Basket Assembly Drawing	80210	Rev. 0
Cargo Basket Installation Drawing	80301	Rev. 0
Cargo Basket Assembly Drawing	80310	Rev. 0
Cargo Basket Installation Drawing	81101	Rev. 0
Cargo Basket Assembly Drawing	81110	Rev. 0
Document Control List (Basket Modifications)	DCL704	Rev. 4
Engineering Report	ER 704.02	Rev. 0

...continued



The drawings below are on the enclosed CD-ROM:

(medium)

Basket Components - Basket Body Assembly Drawing	80311	Rev. 0
Basket Components - Basket Lid Assembly Drawing	80312	Rev. 0
Basket Components - Hoop Drawing	80322	Rev. 0
Basket Components - Attachment Hoop Drawing	80323	Rev. 0
Basket Components - Attachment Hoop Drawing	80324	Rev. 0
Basket Components - Placard Drawing	80327	Rev. 0

(short)

Basket Components - Basket Body Assembly Drawing	80211	Rev. 0
Basket Components - Basket Lid Assembly Drawing	80212	Rev. 0
Basket Components - Hoop Drawing	80227	Rev. 0

(long)

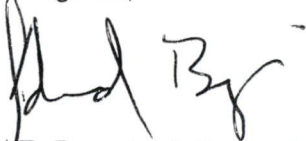
Basket Components - Basket Body Assembly Drawing	81111	Rev. 0
Basket Components - Basket Lid Assembly Drawing	81112	Rev. 0
Basket Components - Hoop Drawing	81127	Rev. 0

Basket Components - Spacer	49215	Rev. 0
Basket Components - Spacer	49216	Rev. 0

Handle Assembly	36255	Rev. 1
Handle Bar Assembly	36261	Rev. 6
Handle Bracket Assembly	36262	Rev. 1
Handle Lever	36271	Rev. 1
Basket Bracket	36272	Rev. 1
Lid Bracket	36273	Rev. 1
Bushing	36274	Rev. 1
Bushing	36275	Rev. 2
Handle Bar	36277	Rev. 0
Spring	36278	Rev. 1
Brace	36280, Sheet 1	Rev. 2
Brace	36280, Sheet 2	Rev. 2

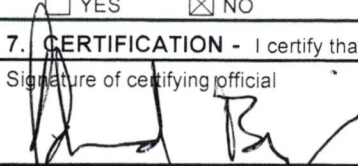
Open Forward End Modification Drawing	70401	Rev. 1
Lid Door Modification Drawing	70402	Rev. 1
Auxiliary Latch Modification Drawing	70403	Rev. 3
Lid Step Modification Drawing	70405	Rev. 2

Regards,



E. Burgoin, P.Eng, DAR 290M


Encl.

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		FORM APPROVED O.M.B. No. 04-R0078
<b>APPLICATION FOR TYPE CERTIFICATE, PRODUCTION CERTIFICATE, OR SUPPLEMENTAL TYPE CERTIFICATE</b>		
1. Name and address of applicant Aero Design Ltd. 2013 - 39th Avenue NE Calgary, Alberta, T2E 6R7 Canada	2. Application made for - <input type="checkbox"/> Type Certificate <input type="checkbox"/> Production Certificate <input checked="" type="checkbox"/> Supplemental Type Certificate	3. Product involved <input checked="" type="checkbox"/> Aircraft <input type="checkbox"/> Engine <input type="checkbox"/> Propeller
<b>4. TYPE CERTIFICATE</b> (Complete item 4a below)		
a. Model designation(s) (All models listed are to be completely described in the required technical data, including drawings representing the design, material, specifications, construction, and performance of the aircraft, aircraft engine, propeller which is the subject of this application.)		
<b>5. PRODUCTION CERTIFICATE</b> (Complete items 5a-c below. Submit with this form, in manual form, one copy of quality control data or changes thereto covering new products, as required by applicable FAR.)		
a. Factory address (If different from 1 above)	b. Application is for - <input type="checkbox"/> New Production Certificate <input type="checkbox"/> Additions to Production Certificate (Give P.C. No.)	P.C. No.
c. Applicant is holder of or a licensee under a Type Certificate or a Supplemental Type Certificate (Attach evidence of licensing agreement and give certificate number)		T.C./S.T.C. No.
<b>6. SUPPLEMENTAL TYPE CERTIFICATE</b> (Complete items 6a-d below)		
a. Make and model designation of product to be modified Bell Helicopter (Textron) 206B series (TCDS: H2SW)		
b. Description of modification Installation of External Cargo Basket  Provisions for mounting the Cargo Basket are installed by replacement of the landing gear saddles, with new saddles that incorporate additional hardware. Steel support beams attach to the fasteners in the provisions. The steel frame and mesh basket attaches to the support beams, to carry cargo externally. The basket can be mounted and removed from the beams without tools.		
c. Will data be available for sale or release to other persons?  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	d. Will parts be manufactured for sale? (Ref. FAR 21.303)  <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
<b>7. CERTIFICATION</b> - I certify that the above statements are true.		
Signature of certifying official 	Title DAR 290M (AERO Design Ltd.)	Date 1 April, 2009



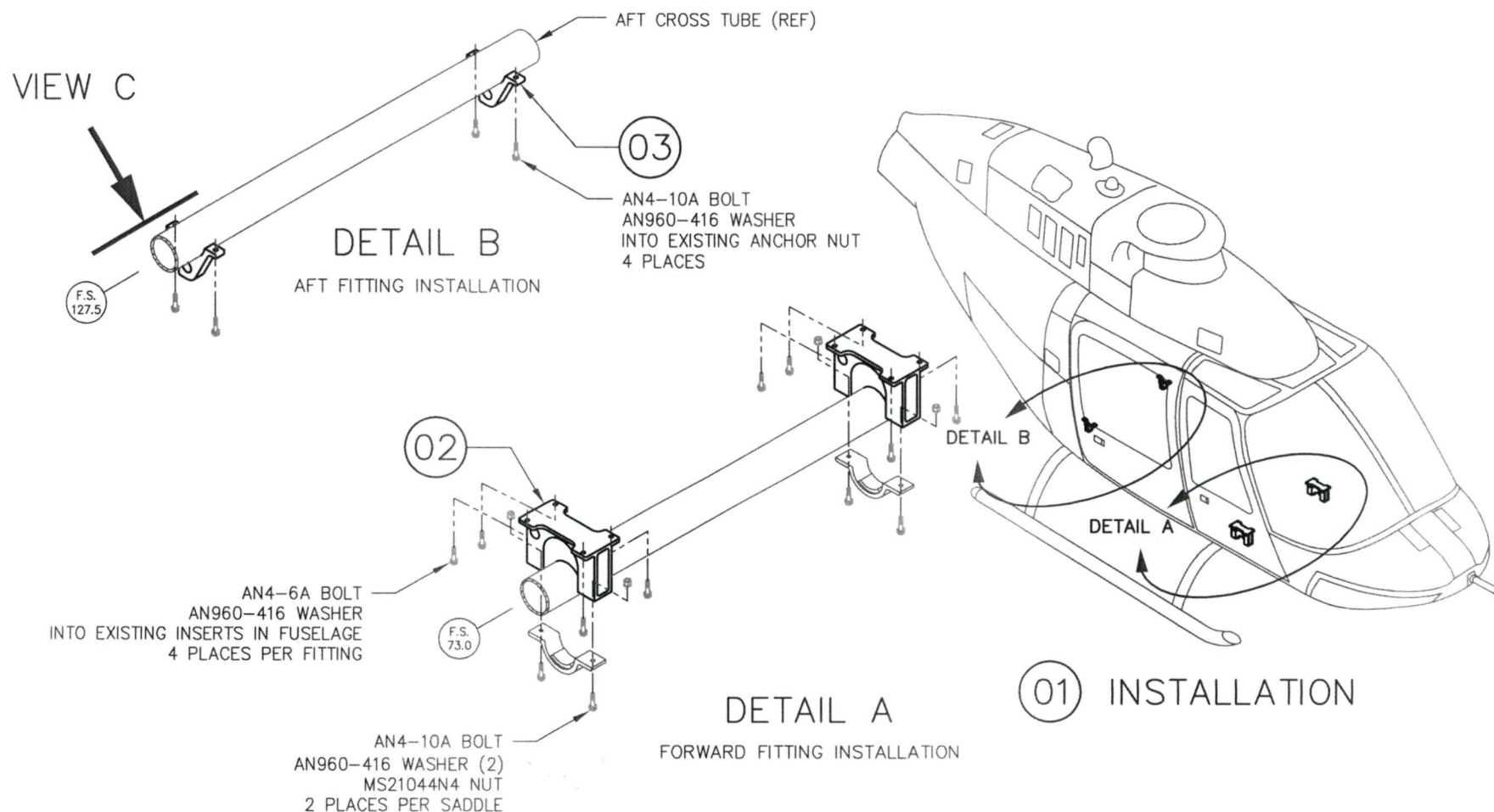
MODIFICATION APPROVAL REQUEST APPLICATION FORM

MOD803, Rev. 1

1. NAME AND ADDRESS OF APPLICANT:		2. IDENTIFICATION OF PRODUCT				
AERO Design Ltd. 2013 - 39th Avenue NE Calgary, Alberta, Canada T2E 6R7		MAKE:  Bell Helicopter (Textron)		MODEL:  206B, 206B-1		
ALL CORRESPONDANCE TO: AERO Design Ltd. 2013 - 39th Avenue NE Calgary, Alberta, Canada T2E 6R7		SERIAL No.:  All eligible		REGISTRATION:  All eligible		
3. REQUEST FOR:						
A. SUPPLEMENTAL TYPE CERTIFICATE (STC)		<input type="checkbox"/>				
B. STC/STA REVISION		<input type="checkbox"/> STC/STA No.				
C. LIMITED SUPPLEMENTAL TYPE CERTIFICATE (LSTC)		<input type="checkbox"/>				
D. LIMITED STC/STA REVISION		<input type="checkbox"/> LSTC/LSTA No.				
E. F.A.A. SUPPLEMENTAL TYPE CERTIFICATE		<input checked="" type="checkbox"/>				
F. F.A.A. STC REVISION		<input type="checkbox"/> STC No.				
G. FAMILIARIZATION OF F.A.A. STC		<input type="checkbox"/> STC No.				
H. REPAIR DESIGN APPROVAL (RDC)		<input type="checkbox"/>				
I. PARTS DESIGN APPROVAL (PDA)		<input type="checkbox"/>				
4. TITLE OF MODIFICATION OR REPAIR: Quick Release Cargo Basket Installation						
5. BRIEF DESCRIPTION OF MODIFICATION OR REPAIR: Provisions for mounting the Cargo Basket are installed by replacement of the landing gear saddles, with new saddles that incorporate additional hardware. Steel support beams attach to the fasteners in the provisions. The steel frame and mesh basket attaches to the support beams, to carry cargo externally. The basket can be mounted and removed from the beams without tools.						
6. APPLICABLE TYPE APPROVAL (TA) OR TYPE CERTIFICATE (TC) DOCUMENTS:						
A. TA NO. _____ B. TC No. H2SW _____ C. OTHER _____						
7. PROPOSED BASIS OF APPROVAL:						
A. SAME AS TA <input type="checkbox"/> B. SAME AS TC <input checked="" type="checkbox"/> C. OTHER <input type="checkbox"/> (Please specify) _____						
8. DOCUMENTATION CHECKLIST		REQUIRED		FOR DOT USE ONLY		
				RECEIVED		
		YES	NO	YES	NO	DATE
COMPLIANCE PROGRAM		X				
MASTER DRAWING LIST		X				
FLIGHT MANUAL SUPPLEMENT		X				
MAINTENANCE MANUAL SUPPLEMENT			X			
INSTRUCTIONS FOR CONTINUING AIRWORTHINESS		X				
ENGINEERING REPORTS		X				
DESIGN DRAWINGS			X			
MANUFACTURE DRAWINGS & INSTALLATION INSTRUCTIONS		X				
ELECTRICAL LOAD ANALYSIS			X			
DRAFT STC, LSTC OR RDA			X			
WEIGHT AND MOMENT CHANGE		X				
FLIGHT TEST DATA		X				
OTHER (Specify)			X			
9. APPLICANT'S REMARKS: STC based on Transport Canada STC # SH09-5						
10. In addition to the payment of Aircraft Certification approval fees as prescribed in Canadian Aviation Regulations (CAR) Section 104, I agree to reimburse Transport Canada incremental expenses as in Aviation Regulation Directive No. 3, or equivalent, as applicable. For further details governing cost recovery, refer to AMA 513/4.						
AERO Design Ltd.		Consultant		1 April, 2009		
PER: 		TITLE		DATE		
SIGNATURE OF APPLICANTS						
11.						
SIGNATURE OF REGIONAL ENGINEER		DATE				



REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE	BJC	OCT 06/08



				APPROVALS	DATE	<b>AERO DESIGN LTD.</b> CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 – 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 tel: (403) 250–8027      fax: (403) 250–8333      www.aerodesign.ca				
				DRAWN: JEFF CLARKE	06 OCT 2008					
				CHECKED: E. BURGOIN						
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS      ANGLES X.XXX    ±0.010      ±1/2" X.XX     ±0.03 X.X      ±0.1		BELL 206B QUICK RELEASE MOUNTING PROVISIONS EXTERNAL ATTACHMENT PROVISIONS INSTALLATION				
4	MS21044N4		NUT							
A/R	AN960–416		WASHER							
8	AN4–10A		BOLT							
8	AN4–6A		BOLT							
1	49721–02	04	AFT LEFT SADDLE FITTING							
1	49721–01	03	AFT RIGHT SADDLE FITTING							
2	49720–01	02	FORWARD FITTING							
	49701–01	01	INSTALLATION							
01	PART NO.	ITEM	DESCRIPTION							
QTY.	LIST OF MATERIALS									
						NOT TO SCALE	DWG. SIZE	DWG. NO.	REV.	
						SHEET 1 OF 2	A4	49701	0	

NOTES:

1. HIGH SKID GEAR INSTALLATION IS MANDATORY PREREQUISITE FOR THIS INSTALLATION.

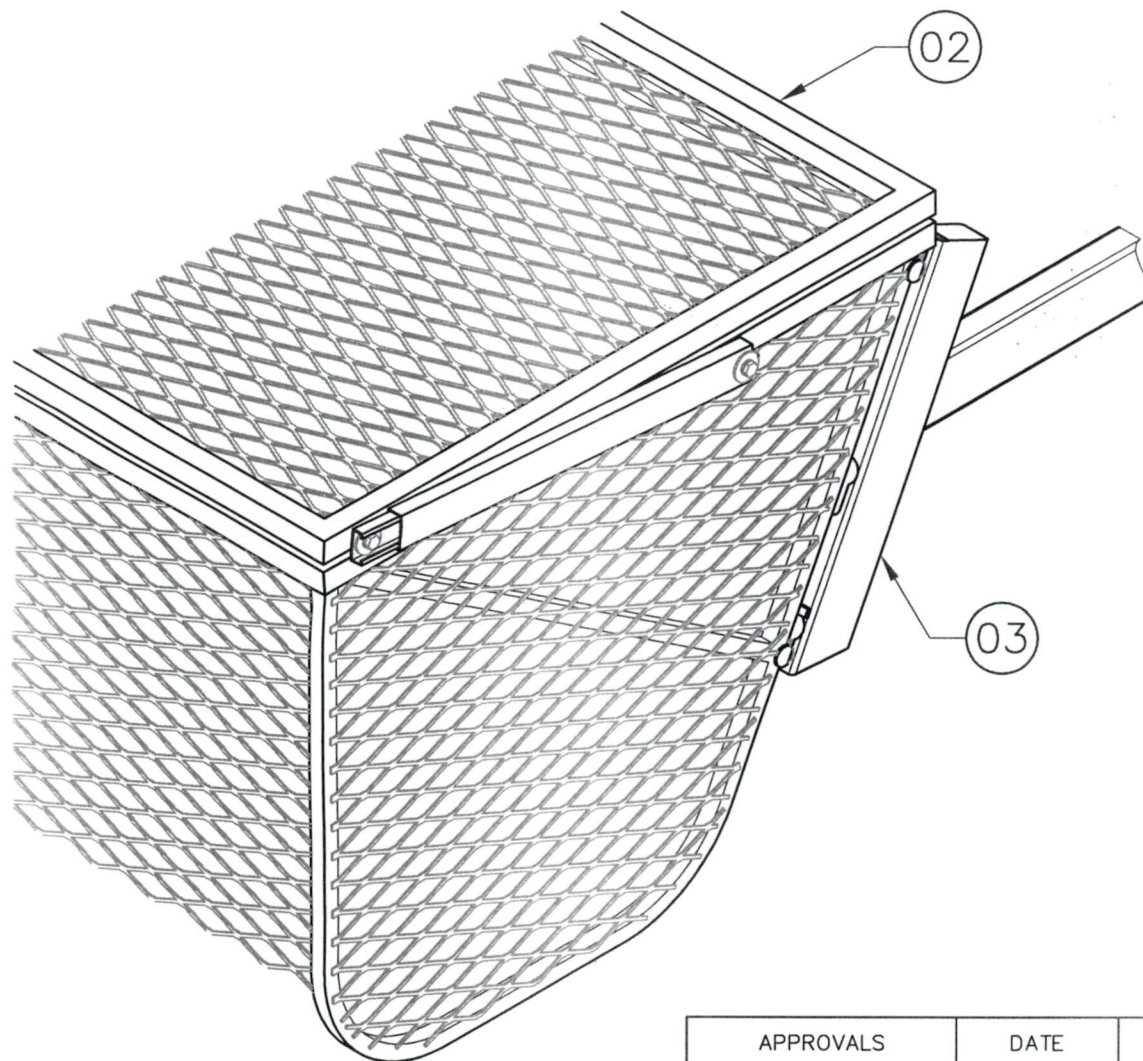
## WEIGHT AND BALANCE

ITEM	DESCRIPTION	WEIGHT (LB)	LONGITUDINAL		LATERAL	
			ARM (IN)	MOMENT (LB-IN)	ARM (IN)	MOMENT (LB-IN)
02	FORWARD FITTING (PAIR)	3.44	73.2	251.6	0	0
03/04	AFT FITTING (PAIR)	0.65	127.6	83.0	0	0
01	MOUNTING PROVISIONS INSTALLATION	4.09	81.8	334.6	0	0

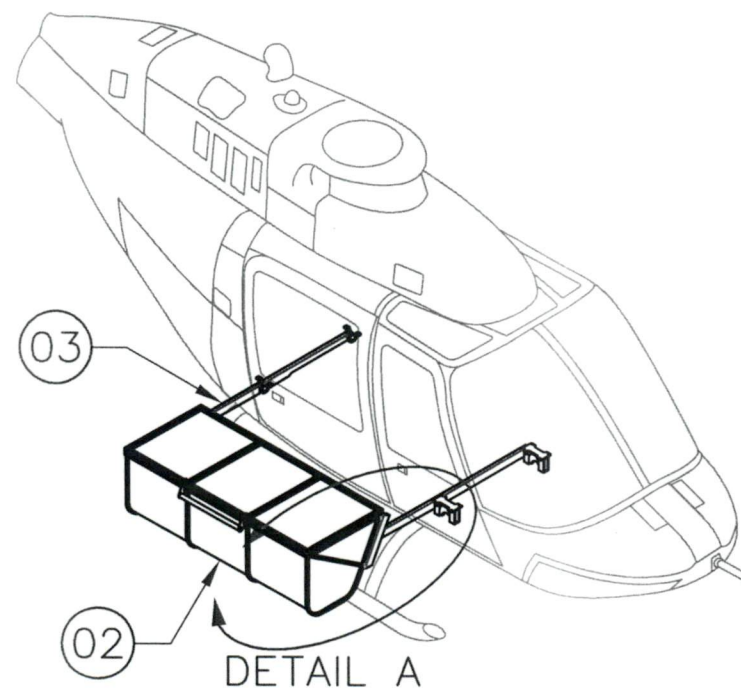
THIS DRAWING CONTAINS INFORMATION AND DATA WHICH IS PROPRIETARY TO AERO DESIGN LTD. THIS DRAWING, OR ANY PORTION THEREOF, MAY NOT BE REPRODUCED, COPIED, OR DUPLICATED IN ANY MANNER, NOR USED FOR MANUFACTURING WITHOUT THE WRITTEN CONSENT OF AERO DESIGN LTD. BY ACCEPTING THIS DRAWING FOR REFERENCE, THE RECIPIENT AGREES TO HOLD AERO DESIGN LTD. HARMLESS FROM THE USE, OR MISUSE, OF THIS DRAWING OR THE INFORMATION CONTAINED THEREON.	APPROVALS	DATE	<b>AERO DESIGN LTD.</b> CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 tel: (403) 250-8027 fax: (403) 250-8333 www.aerodesign.ca			
DRAWN: JEFF CLARKE	06 OCT 2008					
CHECKED: E. BURGOIN			BELL 206B QUICK RELEASE MOUNTING PROVISIONS EXTERNAL ATTACHMENT PROVISIONS INSTALLATION			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES X.XXX $\pm 0.010$ $\pm 1/2^\circ$ X.XX $\pm 0.03$ X.X $\pm 0.1$						
	NOT TO SCALE	DWG. SIZE	DWG. NO.	REV.		
SHEET 2 OF 2	A4	49701	0			



REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE	BJC	OCT 06/08



DETAIL A



DETAIL A

01 INSTALLATION

1	49702-01	03	ATTACHMENT PROVISIONS
1	80210-01	02	CARGO BASKET ASSEMBLY
	80201-01	01	INSTALLATION
QTY.	PART NO.	ITEM	DESCRIPTION
LIST OF MATERIALS			

APPROVALS	DATE
DRAWN: JEFF CLARKE	06 OCT 2008
CHECKED: E. BURGOIN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:	
DECIMALS	ANGLES
X.XXX ±0.010	±1/2°
X.XX ±0.03	
X.X ±0.1	

**AERO DESIGN LTD.**  
CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M  
2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7  
tel: (403) 250-8027 fax: (403) 250-8333 [www.aerodesign.ca](http://www.aerodesign.ca)

**BELL 206B  
QUICK RELEASE CARGO BASKET  
INSTALLATION**

NOT TO SCALE	DWG. SIZE	DWG. NO.	REV.
SHEET 1 OF 2	A4	80201	0



NOTES:

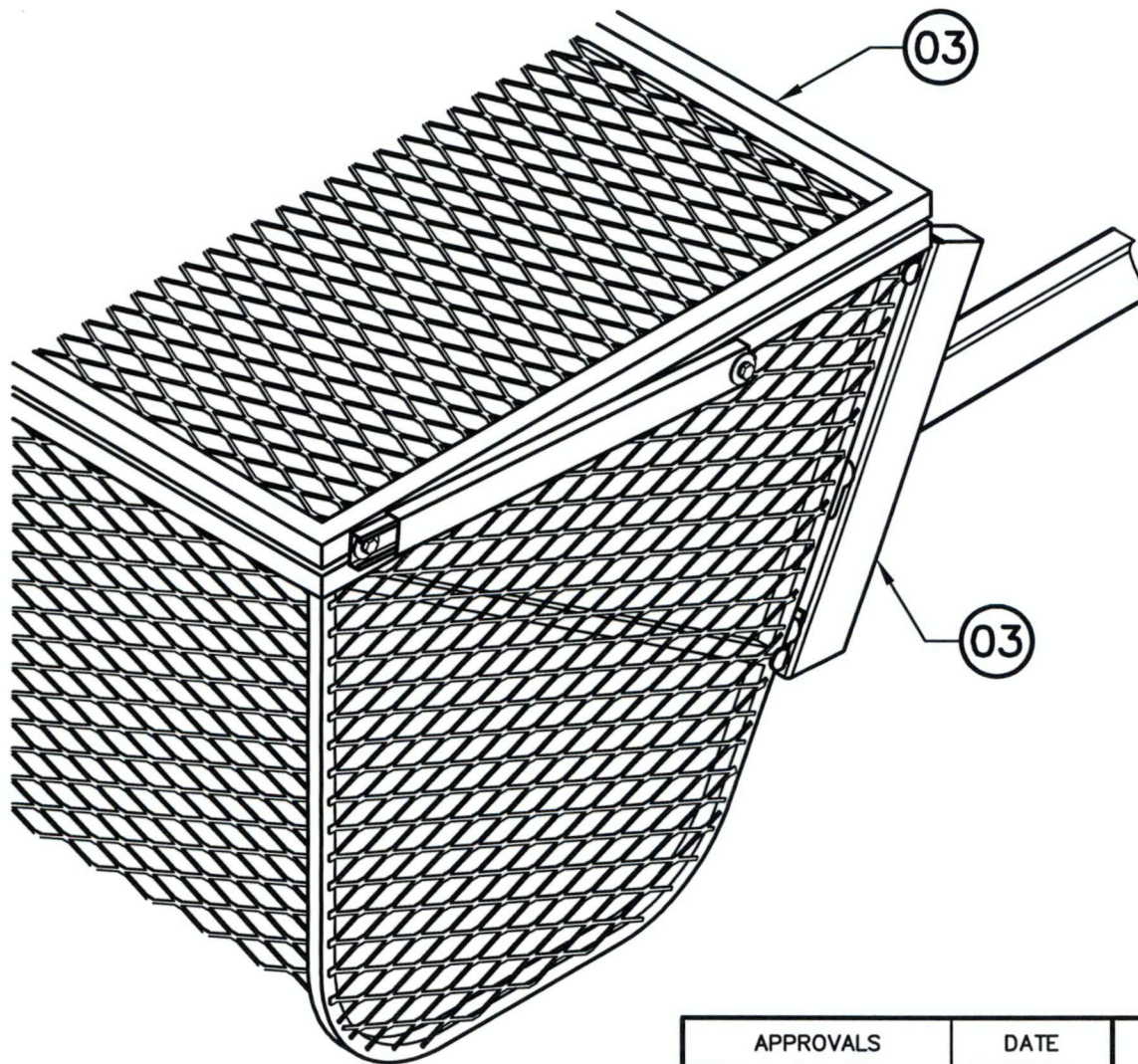
1. EXTERNAL ATTACHMENT PROVISIONS INSTALLED IN ACCORDANCE WITH DRAWING 49701 AND QUICK RELEASE MOUNTING PROVISIONS INSTALLED IN ACCORDANCE WITH DRAWING 49702 IS MANDATORY PREREQUISITE FOR THIS INSTALLATION.
2. HIGH SKID GEAR INSTALLATION IS MANDATORY PREREQUISITE FOR THIS INSTALLATION.
3. SEE FLIGHT MANUAL SUPPLEMENT, FMS803.91, FOR LIMITATIONS ON HELICOPTER OPERATIONS WITH CARGO BASKET INSTALLED.
4. SEE INSTRUCTIONS FOR CONTINUED AIRWORTHINESS, ICA803.90, FOR MAINTENANCE INFORMATION.

## WEIGHT AND BALANCE

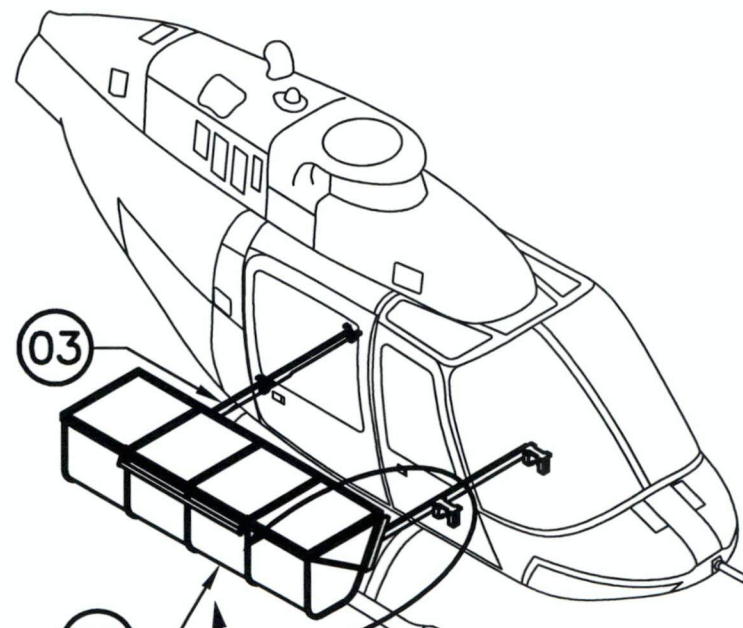
ITEM	DESCRIPTION	WEIGHT (LB)	LONGITUDINAL		LATERAL	
			ARM (IN)	MOMENT (LB-IN)	ARM (IN)	MOMENT (LB-IN)
02	CARGO BASKET	50.0	76.4	878.6	12.7	146.2
03	MOUNTING PROVISIONS INSTALLATION	22.0	101.6	2234.2	13.1	289.0
01	CARGO BASKET INSTALLATION	22.0	101.6	2234.2	13.1	289.0

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">             NOTICE              THIS DRAWING CONTAINS INFORMATION AND DATA WHICH IS PROPRIETARY TO AERO DESIGN LTD. THIS DRAWING, OR ANY PORTION THEREOF, MAY NOT BE REPRODUCED, COPIED, OR DUPLICATED IN ANY MANNER, NOR USED FOR MANUFACTURING WITHOUT THE WRITTEN CONSENT OF AERO DESIGN LTD. BY ACCEPTING THIS DRAWING FOR REFERENCE, THE RECIPIENT AGREES TO HOLD AERO DESIGN LTD. HARMLESS FROM THE USE, OR MISUSE, OF THIS DRAWING OR THE INFORMATION CONTAINED THEREON.           </p>	APPROVALS	DATE	<h2 style="text-align: center;">AERO DESIGN LTD.</h2> <p style="text-align: center;">CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M              2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7              tel: (403) 250-8027 fax: (403) 250-8333 www.aerodesign.ca</p>			
	DRAWN: JEFF CLARKE	06 OCT 2008				
	CHECKED: E. BURGOIN					
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS                      ANGLES X.XXX ±0.010                      ±1/2° X.XX ±0.03 X.X ±0.1		<h3 style="text-align: center;">BELL 206B QUICK RELEASE CARGO BASKET INSTALLATION</h3>			
			NOT TO SCALE	DWG. SIZE	DWG. NO.	REV.
			SHEET 2 OF 2	A4	80201	0

REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE	BJC	OCT 06/08



DETAIL A



DETAIL A

INSTALLATION

QTY.	PART NO.	ITEM	DESCRIPTION
1	49702-01	03	ATTACHMENT PROVISIONS
1	80310-01	02	CARGO BASKET ASSEMBLY
	80301-01	01	INSTALLATION
LIST OF MATERIALS			

APPROVALS	DATE
DRAWN: JEFF CLARKE	06 OCT 2008
CHECKED: E. BURGOIN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:	
DECIMALS	ANGLES
X.XXX ±0.010	±1/2°
X.XX ±0.03	
X.X ±0.1	

AERO DESIGN LTD.			
CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 tel: (403) 250-8027 fax: (403) 250-8333 www.aerodesign.ca			
BELL 206B QUICK RELEASE CARGO BASKET INSTALLATION			
NOT TO SCALE	DWG. SIZE	DWG. NO.	REV.
SHEET 1 OF 2	A4	80301	0



NOTES:

1. EXTERNAL ATTACHMENT PROVISIONS INSTALLED IN ACCORDANCE WITH DRAWING 49701 AND QUICK RELEASE MOUNTING PROVISIONS INSTALLED IN ACCORDANCE WITH DRAWING 49702 IS MANDATORY PREREQUISITE FOR THIS INSTALLATION.
2. HIGH SKID GEAR INSTALLATION IS MANDATORY PREREQUISITE FOR THIS INSTALLATION.
3. SEE FLIGHT MANUAL SUPPLEMENT, FMS803.91, FOR LIMITATIONS ON HELICOPTER OPERATIONS WITH CARGO BASKET INSTALLED.
4. SEE INSTRUCTIONS FOR CONTINUED AIRWORTHINESS, ICA803.90, FOR MAINTENANCE INFORMATION.

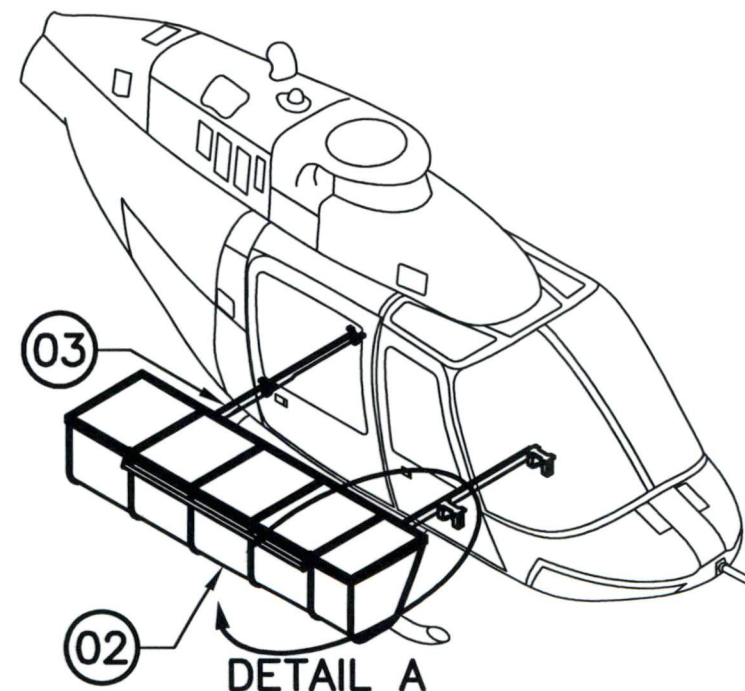
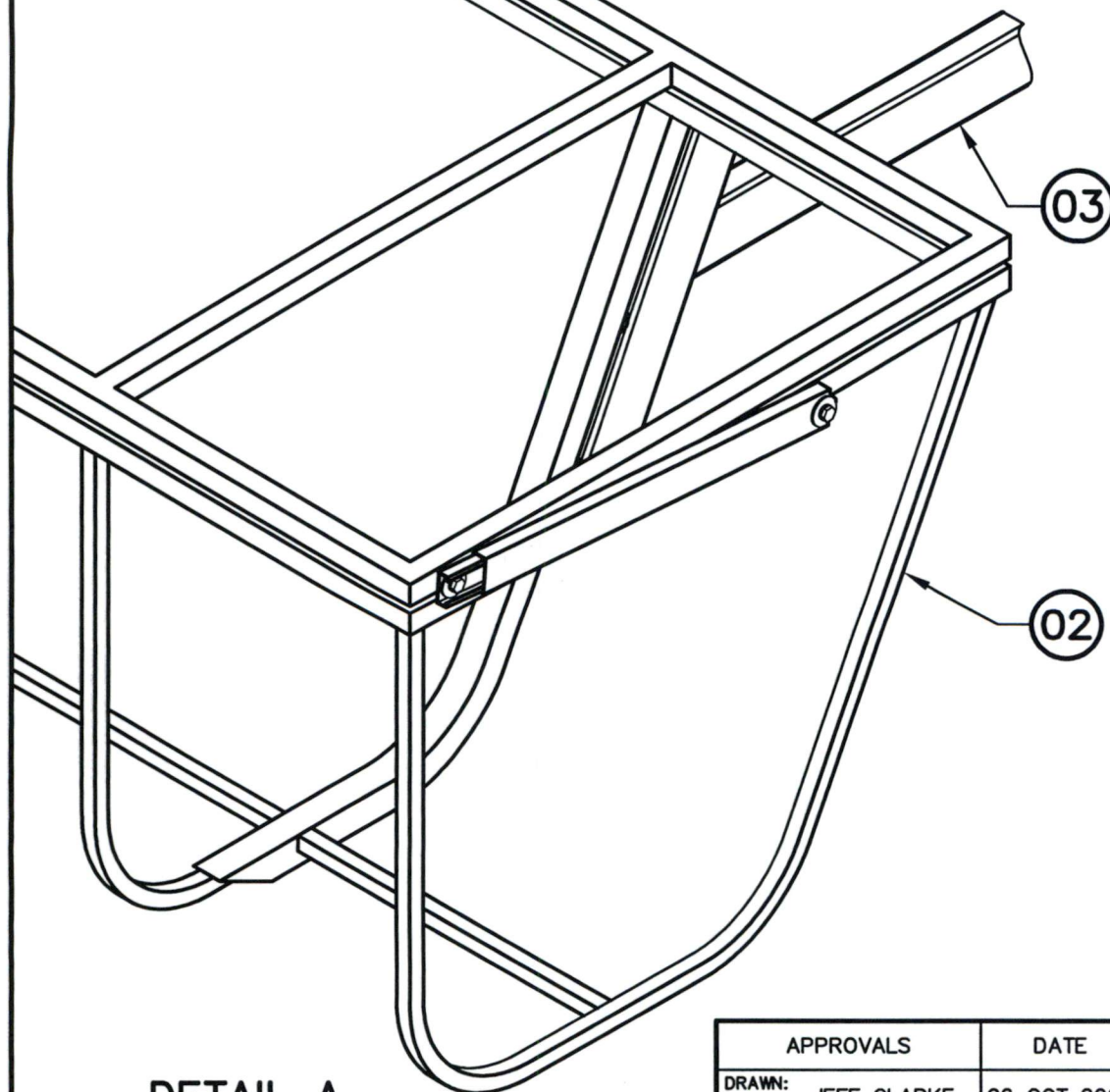
## WEIGHT AND BALANCE

ITEM	DESCRIPTION	WEIGHT (LB)	LONGITUDINAL		LATERAL	
			ARM (IN)	MOMENT (LB-IN)	ARM (IN)	MOMENT (LB-IN)
02	CARGO BASKET	45.0	111.9	5035.5	42.4	1908.0
03	MOUNTING PROVISIONS INSTALLATION	26.1	98.4	2568.8	13.1	289.0
01	CARGO BASKET INSTALLATION	71.1	107.0	7604.3	30.9	2197.0

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	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS                      ANGLES X.XXX ±0.010                      ±1/2° X.XX ±0.03 X.X ±0.1		<h3>BELL 206B</h3> <h3>QUICK RELEASE CARGO BASKET</h3> <h3>INSTALLATION</h3>			
	NOT TO SCALE		DWG. SIZE	DWG. NO.	REV.	
	SHEET 2 OF 2		<h1>A4</h1>	<h1>80301</h1>	<h1>0</h1>	



REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE	BJC	OCT 06/08



DETAIL A  
INSTALLATION

## DETAIL A

MESH NOT SHOWN FOR CLARITY

1	49702-01	03	ATTACHMENT PROVISIONS
1	81110-01	02	CARGO BASKET ASSEMBLY
	81101-01	01	INSTALLATION
QTY.	PART NO.	ITEM	DESCRIPTION
LIST OF MATERIALS			

APPROVALS	DATE
DRAWN: JEFF CLARKE	06 OCT 2008
CHECKED: E. BURGOIN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:	
DECIMALS	ANGLES
X.XXX ±0.010	±1/2°
X.XX ±0.03	
X.X ±0.1	

**AERO DESIGN LTD.**  
CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M  
2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7  
tel: (403) 250-8027 fax: (403) 250-8333 [www.aerodesign.ca](http://www.aerodesign.ca)

## BELL 206B QUICK RELEASE CARGO BASKET INSTALLATION

NOT TO SCALE	DWG. SIZE	DWG. NO.	REV.
SHEET 1 OF 2	A4	81101	0

NOTES:

1. EXTERNAL ATTACHMENT PROVISIONS INSTALLED IN ACCORDANCE WITH DRAWING 49701 AND QUICK RELEASE MOUNTING PROVISIONS INSTALLED IN ACCORDANCE WITH DRAWING 49702 IS MANDATORY PREREQUISITE FOR THIS INSTALLATION.
2. HIGH SKID GEAR INSTALLATION IS MANDATORY PREREQUISITE FOR THIS INSTALLATION.
3. SEE FLIGHT MANUAL SUPPLEMENT, FMS803.91, FOR LIMITATIONS ON HELICOPTER OPERATIONS WITH CARGO BASKET INSTALLED.
4. SEE INSTRUCTIONS FOR CONTINUED AIRWORTHINESS, ICA803.90, FOR MAINTENANCE INFORMATION.

## WEIGHT AND BALANCE

ITEM	DESCRIPTION	WEIGHT (LB)	LONGITUDINAL		LATERAL	
			ARM (IN)	MOMENT (LB-IN)	ARM (IN)	MOMENT (LB-IN)
02	CARGO BASKET	50.0	105.9	5925.0	42.4	2120.0
03	MOUNTING PROVISIONS INSTALLATION	26.1	98.4	2568.8	11.1	289.0
01	CARGO BASKET INSTALLATION	76.1	103.3	7863.8	31.7	2409.0

<p style="text-align: center;">NOTICE</p> <p>THIS DRAWING CONTAINS INFORMATION AND DATA WHICH IS PROPRIETARY TO AERO DESIGN LTD. THIS DRAWING, OR ANY PORTION THEREOF, MAY NOT BE REPRODUCED, COPIED, OR DUPLICATED IN ANY MANNER, NOR USED FOR MANUFACTURING WITHOUT THE WRITTEN CONSENT OF AERO DESIGN LTD. BY ACCEPTING THIS DRAWING FOR REFERENCE, THE RECIPIENT AGREES TO HOLD AERO DESIGN LTD. HARMLESS FROM THE USE, OR MISUSE, OF THIS DRAWING OR THE INFORMATION CONTAINED THEREON.</p>	APPROVALS	DATE	<h3 style="margin: 0;">AERO DESIGN LTD.</h3> <p style="margin: 0; font-size: 10px;">CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 tel: (403) 250-8027      fax: (403) 250-8333      www.aerodesign.ca</p>											
	DRAWN: JEFF CLARKE	06 OCT 2008												
	CHECKED: E. BURGOIN		<h3 style="margin: 0;">BELL 206B</h3> <h3 style="margin: 0;">QUICK RELEASE CARGO BASKET</h3> <h3 style="margin: 0;">INSTALLATION</h3>											
	<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">DECIMALS</td> <td style="width: 50%;">ANGLES</td> </tr> <tr> <td>X.XXX ±0.010</td> <td>±1/2°</td> </tr> <tr> <td>X.XX ±0.03</td> <td></td> </tr> <tr> <td>X.X ±0.1</td> <td></td> </tr> </table>						DECIMALS	ANGLES	X.XXX ±0.010	±1/2°	X.XX ±0.03		X.X ±0.1	
							DECIMALS	ANGLES						
X.XXX ±0.010	±1/2°													
X.XX ±0.03														
X.X ±0.1														
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; text-align: center;">NOT TO SCALE</td> <td style="width: 15%; text-align: center;">DWG. SIZE</td> <td style="width: 25%; text-align: center;">DWG. NO.</td> <td style="width: 15%; text-align: center;">REV.</td> <td style="width: 25%;"></td> </tr> <tr> <td style="text-align: center;">SHEET 2 OF 2</td> <td style="text-align: center; font-size: 24px;">A4</td> <td style="text-align: center; font-size: 24px;">81101</td> <td style="text-align: center; font-size: 24px;">0</td> <td></td> </tr> </table>		NOT TO SCALE	DWG. SIZE	DWG. NO.	REV.		SHEET 2 OF 2	A4	81101	0				
NOT TO SCALE	DWG. SIZE	DWG. NO.	REV.											
SHEET 2 OF 2	A4	81101	0											





Department of Transport

# Supplemental Type Certificate

**This approval is issued to:**

Aero Design Ltd.  
2013 39th Avenue North East  
Calgary, Alberta  
Canada T2E 6R7

**Number:** SH09-5

**Issue No.:** 1

**Approval Date:** March 20, 2009

**Issue Date:** March 20, 2009

**Responsible Office:**

Prairie and Northern

**Aircraft/Engine Type or Model:**

BELL 206B

**Canadian Type Certificate or Equivalent:**

H-92

**Description of Type Design Change:**

Installation of External Attachment Provisions, Quick Release Mounting Provisions and Cargo Basket

**Installation/Operating Data,  
Required Equipment and Limitations:**

**Configuration A - External Attachment Provisions Only:**

Installation of External Attachment Provisions to be completed in accordance with Transport Canada approved, AERO Design Ltd. Document Control List, DCL497-1, Revision 0, dated 22 December 2008, or later approved revision.

Transport Canada approved, AERO Design Ltd. Flight Manual Supplement FMS497.92, Revision 0, dated 22 December 2008, or later approved revision is required with this installation.

Transport Canada accepted, AERO Design Ltd. Instructions for Continued Airworthiness ICA497.90, Revision 0, dated 18 December 2008, or later accepted revision is required with this installation.

External Attachment Provisions installed in accordance with DCL497-1 may remain installed if any other configuration is removed.

...See Continuation Sheet



**Conditions:** This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.

R.A. Goossens  
For Minister of Transport





NOTE: THIS ADDENDUM SHALL REMAIN PART OF THE CERTIFICATE REFERRED TO THEREIN.

---

**Configuration B – Quick Release Mounting Provisions:**

Installation of Configuration A, External Attachment Provisions, is a prerequisite for installation of Configuration B, Quick Release Mounting Provisions. Installation of Quick Release Mounting Provisions to be completed in accordance with Transport Canada approved, AERO Design Ltd. Document Control List DCL497-2, Revision 0, dated 22 December 2008, or later approved revision.

Transport Canada accepted, AERO Design Ltd. Instructions for Continued Airworthiness ICA497.91, Revision 0, dated 22 December 2008, or later accepted revision is required with this installation.

Quick Release Mounting Provisions installed in accordance with DCL497-2 may remain installed if a cargo basket configuration is removed.

**Configuration C – External Cargo Basket (Short Basket):**

Installation of Configuration A, External Attachment Provisions, and Configuration B, Quick Release Mounting Provisions, are prerequisite for installation of Configuration C, External Cargo Basket Installation. Installation of Quick Release Cargo Basket to be completed in accordance with Transport Canada approved, AERO Design Ltd. Document Control List, DCL802-1, Revision 0, dated 22 December 2008, or later approved revision.

**Configuration D – External Cargo Basket (Medium Basket):**

Installation of Configuration A, External Attachment Provisions, and Configuration B, Quick Release Mounting Provisions, are prerequisite for installation of Configuration D, External Cargo Basket Installation. Installation of Quick Release Cargo Basket to be completed in accordance with Transport Canada approved, AERO Design Ltd. Document Control List, DCL803-1, Revision 0, dated 22 December 2008, or later approved revision.

**Configuration E – External Cargo Basket (Long Basket):**

Installation of Configuration A, External Attachment Provisions, and Configuration B, Quick Release Mounting Provisions, are prerequisite for installation of Configuration E, External Cargo Basket Installation. Installation of Quick Release Cargo Basket to be completed in accordance with Transport Canada approved, AERO Design Ltd. Document Control List, DCL811-1, Revision 0, dated 22 December 2008, or later approved revision.

...See Continuation Sheet



NOTE: THIS ADDENDUM SHALL REMAIN PART OF THE CERTIFICATE REFERRED TO THEREIN.

---

**Cargo Basket Modifications:**

Modifications to the Cargo Basket configurations are eligible in accordance with Transport Canada approved, AERO Design Ltd. Document Control List DCL704, Revision 5, dated 22 December 2008, or later approved revision. Eligibility limitations are noted on the drawings.

**Data Pertinent to All External Cargo Basket Configurations (C, D, E):**

Transport Canada approved, AERO Design Ltd. Flight Manual Supplement FMS803.91, Revision 0, dated 18 December 2008, or later accepted revision is required with this installation.


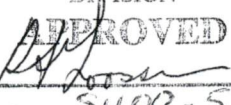
Transport Canada accepted, AERO Design Ltd. Instructions for Continued Airworthiness ICA803.90, Revision 0, dated 18 December 2008, or later accepted revision is required with this installation.

**Basis of Certification:**

Basis of certification remains as defined in the applicable Type Certificate Data Sheets.


– End –

## DOCUMENT CONTROL LIST


DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>INSTALLATION DOCUMENTS</b>		
49701	External Attachment Provisions Installation	0
49703	External Attachment Provisions Installation (Alternate)	0
ICA497.90	Instructions for Continued Airworthiness	0
FMS497.92	Flight Manual Supplement	0
<b>FABRICATION DOCUMENTS</b>		
DCL497-11	Document Control List for External Attachment Provisions Fabrication	0
<b>ENGINEERING DOCUMENTS</b>		
<b>APPROVAL:</b>		
 Transport Canada Transports Canada <b>AIRCRAFT CERTIFICATION DIVISION</b> <b>APPROVED</b> By:  Appr'l No. <u>5409-5</u> Appr'l Date <u>09-03-20</u> Issue No. <u>1</u> Issue Date <u>09-03-20</u> YY-MM-DD		ORIGINAL DATE: 22 December 2008 REVISION DATE:
SHEET 1 OF 1		<b>AERO DESIGN LTD.</b> 2013 – 39 <sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7 Ph. (403) 250-8027 Fax. (403) 250-8333 www.aerodesign.ca  <b>Bell 206B</b> <b>External Attachment</b> <b>Provisions Installation</b>
<b>DCL497-1</b>		Rev.  <b>0</b>




# DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>INSTALLATION DOCUMENTS</b>		
80201	Quick Release Cargo Basket Installation	0
ICA803.90	Instructions for Continued Airworthiness	0
FMS803.91	Flight Manual Supplement	0
<b>FABRICATION DOCUMENTS</b>		
DCL802-11	Document Control List for Quick Release Cargo Basket	0
<b>ENGINEERING DOCUMENTS</b>		
<b>APPROVAL:</b>		
 <div style="display: flex; justify-content: space-between;"> <div>Transport Canada</div> <div>Transports Canada</div> </div> <div style="text-align: center;"> <b>AIRCRAFT CERTIFICATION DIVISION</b>  <b>APPROVED</b>            By <u>[Signature]</u>            App'l No. <u>51709-5</u>            App'l Date <u>09-03-20</u>            Issue No. <u>1</u>            Issue Date <u>09-03-20</u>  <small>YY - MM - DD</small> </div>	ORIGINAL DATE: 22 December 2008  REVISION DATE:	<b>AERO DESIGN LTD.</b> 2013 - 39 <sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7 Ph. (403) 250-8027 Fax. (403) 250-8333
	SHEET 1 OF 1	<b>Bell 206B</b> <b>Quick Release Cargo Basket</b> <b>Installation (Short)</b>
	DCL802-1	Rev.  <div style="font-size: 3em; font-weight: bold;">0</div>

# DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>INSTALLATION DOCUMENTS</b>		
80301	Quick Release Cargo Basket Installation	0
ICA803.90	Instructions for Continued Airworthiness	0
FMS803.91	Flight Manual Supplement	0
<b>FABRICATION DOCUMENTS</b>		
DCL803-11	Document Control List for Quick Release Cargo Basket	0
<b>ENGINEERING DOCUMENTS</b>		
<b>APPROVAL:</b>		
 <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> <b>Transport Canada</b>  <b>AIRCRAFT CERTIFICATION DIVISION</b>  <b>APPROVED</b>            By: <u>[Signature]</u>            App'l No. <u>SH09-5</u>            App'l Date <u>09-05-20</u>            Issue No. <u>1</u>            Issue Date <u>09-05-20</u>  <small>YY-MM-DD</small> </div>	ORIGINAL DATE: 22 December 2008  REVISION DATE:	<b>AERO DESIGN LTD.</b> 2013 - 39 <sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7 Ph. (403) 250-8027 Fax. (403) 250-8333
	SHEET 1 OF 1	<b>Bell 206B</b> <b>Quick Release Cargo Basket</b> <b>Installation (Medium)</b>
	<b>DCL803-1</b>	<b>0</b>

# DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
<b>INSTALLATION DOCUMENTS</b>		
81101	Quick Release Cargo Basket Installation	0
ICA803.90	Instructions for Continued Airworthiness	0
FMS803.91	Flight Manual Supplement	0
<b>FABRICATION DOCUMENTS</b>		
DCL811-11	Document Control List for Quick Release Cargo Basket	0
<b>ENGINEERING DOCUMENTS</b>		
<b>APPROVAL:</b>		
 <div style="display: flex; justify-content: space-between;"> <div>Transport Canada</div> <div>Transports Canada</div> </div> <div style="text-align: center;"> <b>AIRCRAFT CERTIFICATION DIVISION</b>  <b>APPROVED</b>            By <u>[Signature]</u>            App'l No. <u>51109-5</u>            App'l Date <u>09-03-20</u>            Issue No. <u>1</u>            Issue Date <u>09-03-20</u>  <small>YY - MM - DD</small> </div>	ORIGINAL DATE: 22 December 2008  REVISION DATE:	<b>AERO DESIGN LTD.</b> 2013 - 39 <sup>th</sup> Ave NE, Calgary, Alberta, T2E 6R7 Ph. (403) 250-8027 Fax. (403) 250-8333
	SHEET 1 OF 1	<b>Bell 206B</b> <b>Quick Release Cargo Basket</b> <b>Installation (Long)</b>
	<b>DCL811-1</b>	Rev. <div style="text-align: center; font-size: 2em;"><b>0</b></div>



## BELL 206B

### **ROTORCRAFT FLIGHT MANUAL SUPPLEMENT** for the **INSTALLATION of the AERO DESIGN** **QUICK RELEASE CARGO BASKET**

Supplemental Type Certificate No. SH09-5

Sections I, II, III and IV of this document comprise the Transport Canada Approved sections of this Flight Manual Supplement. Compliance with Section I, Limitations, is mandatory.

Section V and any subsequent sections if present are Unapproved and are provided for information only.

The information and data contained in this Flight Manual Supplement supersede or supplement that contained in the basic Approved Flight Manual for the Bell 206B when fitted with the Quick Release Cargo Basket Installation. For limitations, procedures and performance not listed in this Flight Manual Supplement, refer to the Approved Flight Manual and other approved Flight Manual Supplements.



**BELL 206B**

**ROTORCRAFT FLIGHT MANUAL SUPPLEMENT**  
for the  
**INSTALLATION of EXTERNAL ATTACHMENT  
PROVISIONS**

Supplemental Type Certificate No. SH09-5

Sections I, II, III and IV of this document comprise the Transport Canada Approved sections of this Flight Manual Supplement. Compliance with Section I, Limitations, is mandatory.

Section V and any subsequent sections if present are Unapproved and are provided for information only.

The information and data contained in this Flight Manual Supplement supersede or supplement that contained in the basic Approved Flight Manual for the Bell 206B when fitted with External Attachment Provisions. For limitations, procedures and performance not listed in this Flight Manual Supplement, refer to the Approved Flight Manual and other approved Flight Manual Supplements.





Transport  
Canada

Transports  
Canada

1100, 9700 Jasper Avenue  
Edmonton, Alberta  
T5J 4E6

Your file      Votre référence  
**800-2**

Our file      Notre référence

**C-08-1002  
5010-0402**

March 26, 2009

AERO Design Ltd  
2013 39 Ave. NE  
Calgary, AB  
T2E 6R7

Dear Sirs:

Attached is a corrected delegation letter reflecting the proper subject to be a Bell 206L/407, Quick Release Step Installation. This letter supersedes the previously faxed letter of the same date which incorrectly referred to the subject as a Bell 206B, Quick Release Cargo Basket Installation. Other aspects of the letter remain unchanged.

Sincerely,

J. Staal  
Aircraft Certification Technologist  
Prairie and Northern Region  
Ph 780-495-5227  
Fax 780-495-7963 (fax)





Transport  
Canada

Transports  
Canada

1100-9700 Jasper Avenue  
Edmonton, Alberta  
T5J 4E6

**800-2**

Your file      Votre référence

Our file      Notre référence

**C-08-1002**

**5010-0402**

March 24, 2009

AERO Design Limited  
2013 39 Ave. NE  
Calgary, AB  
T2E 6R7

**ATTENTION: Ted Burgoin – DAR 290M**

Dear Sirs:

**SUBJECT:    Extension of DAR 290M Authority – Bell 206L/407, Quick Release Step  
                 Installation, NAPA File C-08-1002, SH00-48 – Issue 7**

This is in response to your 3 December 2008 request for extension of delegation to cover the subject design change. You are hereby authorized to make findings of compliance for the following Compliance Paragraphs as listed in Compliance Plan CP800-2:

27.251 Vibration  
27.629 Flutter

This is a one-time extension and is limited to be exercised for this NAPA file only.

If you have any questions or wish to discuss this project further, please contact the project OPI, Jack Staal, at the Edmonton TCC office.

Yours truly,

F.J.B. Wright  
Regional Manager Aircraft Certification  
Prairie and Northern Region  
Phone: (780) 495-3856  
Fax: (780) 495-7963

**Canada**

AERO DESIGN LTD.

FMS803.91

**BELL 206B****ROTORCRAFT FLIGHT MANUAL SUPPLEMENT**  
for the  
**INSTALLATION of the AERO DESIGN**  
**QUICK RELEASE CARGO BASKET**

Supplemental Type Certificate No. SH09-5

Sections I, II, III and IV of this document comprise the Transport Canada Approved sections of this Flight Manual Supplement. Compliance with Section I, Limitations, is mandatory.

Section V and any subsequent sections if present are Unapproved and are provided for information only.

The information and data contained in this Flight Manual Supplement supersede or supplement that contained in the basic Approved Flight Manual for the Bell 206B when fitted with the Quick Release Cargo Basket installation. For limitations, procedures and performance not listed in this Flight Manual Supplement, refer to the Approved Flight Manual and other approved Flight Manual Supplements.



Revision 0  
18 December 2008

Page 1 of 8  
TRANSPORT CANADA APPROVED

AERO DESIGN LTD.

FMS803.91

**Table of Contents**

I	Limitations	3
II	Normal Procedures	3
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IV	Performance	3
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**Record of Revisions**

Revision	Issue Date	Pages Revised	Date Inserted	By
0	18 Dec. 2008	Original Issue		



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**I LIMITATIONS**

1. The maximum load in the AERO Design Ltd. Quick Release Cargo Basket is 200 lb.
2. Flight operations limited to VFR conditions with AERO Design Ltd. Cargo Basket installed.
3. V<sub>NE</sub> is not changed from the basic rotorcraft.

**II NORMAL PROCEDURES**

1. Pre-flight inspections:
  - a) Ensure that all cargo stored in the cargo basket is properly tied down and secured for flight.
  - b) Ensure that the lid of cargo basket is closed and secured.
  - c) Ensure the basket is locked in position on the beams. Pull up on the forward and aft end of the basket to check.

**CAUTION**

It is possible to exceed the lateral centre of gravity limits of the rotorcraft under some loading conditions. Pilots must ensure that lateral C of G is within limits when loading the basket.

**III EMERGENCY PROCEDURES**

No change from basic Approved Flight Manual.

**CAUTION:**

The rotorcraft glide angle is steeper than that of the basic helicopter when the AERO Design Ltd. Cargo Basket is installed.

**IV PERFORMANCE**

Cruise performance and range will be reduced by approximately 6 percent with the cargo basket installed.

Climb performance will be reduced by up to 200 fpm.

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**V WEIGHT AND BALANCE**

1. The following weight and balance is for the short quick release cargo basket configuration, installed in accordance with drawing 80201.

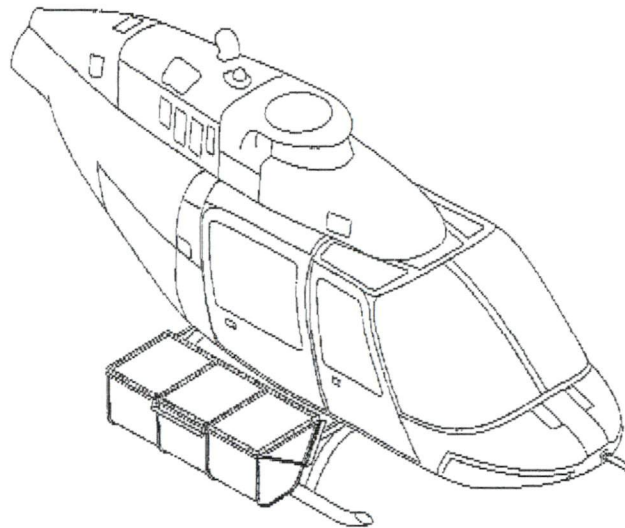


Figure 1 – Short Quick Release Cargo Basket Configuration

Short Quick Release Cargo Basket Configuration

Item	Weight	Longitudinal		Lateral	
		Arm	Moment	Arm	Moment
Cargo Basket Only <sup>1</sup>	35.0 lb	102.8 in	3 598 in*lb	42.4 in	1 484 in*lb
Cargo <sup>2</sup> (MAX)	200 lb	102.8 in	20 560 in*lb	42.4 in	8480 in*lb

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2. The following weight and balance is for the medium quick release cargo basket configuration, installed in accordance with drawing 80301.

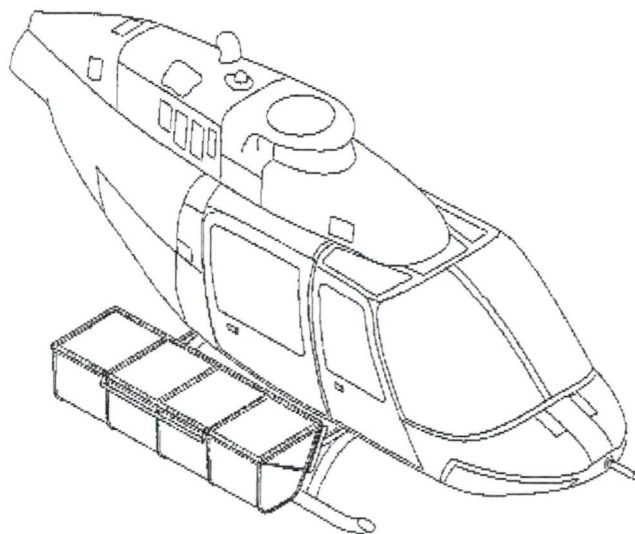


Figure 2 – Medium Quick Release Cargo Basket Configuration

Medium Quick Release Cargo Basket Configuration

Item	Weight	Longitudinal		Lateral	
		Arm	Moment	Arm	Moment
Cargo Basket Only <sup>1</sup>	45.0 lb	111.9 in	5 036 in*lb	42.4 in	1 908 in*lb
Cargo <sup>2</sup> (MAX)	200 lb	111.9 in	22 380 in*lb	42.4 in	8480 in*lb



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3. The following weight and balance is for the long quick release cargo basket configuration, installed in accordance with drawing 81101.

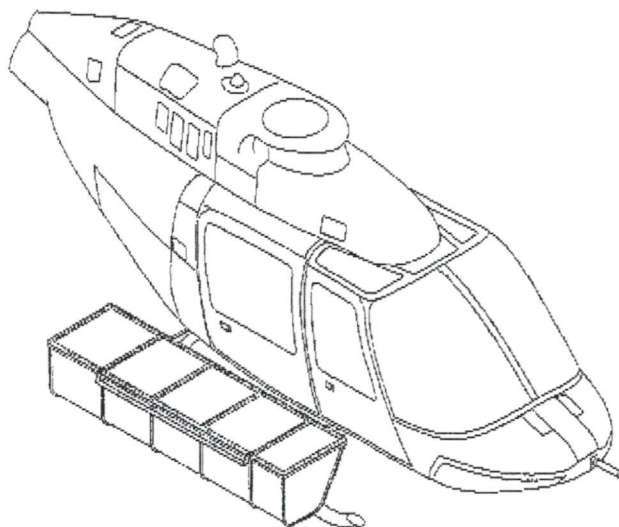


Figure 3 – Long Quick Release Cargo Basket Configuration

Long Quick Release Cargo Basket Configuration

Item	Weight	Longitudinal		Lateral	
		Arm	Moment	Arm	Moment
Cargo Basket Only <sup>1</sup>	50.0 lb	105.9 in	5 925 in*lb	42.4 in	2 120 in*lb
Cargo <sup>2</sup> (MAX)	200 lb	105.9 in	21 180 in*lb	42.4 in	8 480 in*lb

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<sup>1</sup> Weight and balance is for Cargo Basket only. Mounting beams and attachment provisions are not included since they should have been included in the basic rotorcraft weight and balance at time of initial installation.

<sup>2</sup> Longitudinal and Lateral moment arms are given only for the center of the Cargo Basket. Due to the length of the basket, some loading arrangements may require that actual moment arms be measured, to determine the correct moments about the center of gravity.

**CAUTION:**

It is possible to exceed lateral CG limits in some configurations.

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## VI INSTALLATION / REMOVAL INSTRUCTIONS

The basket is installed in accordance with drawing 81101. The beams are installed in accordance with drawing 49702. Removal of the basket leaving the beams in place is an approved configuration for flight. Logbook entry indicating installation or removal of basket and weight and balance amendment is required when basket is installed or removed.

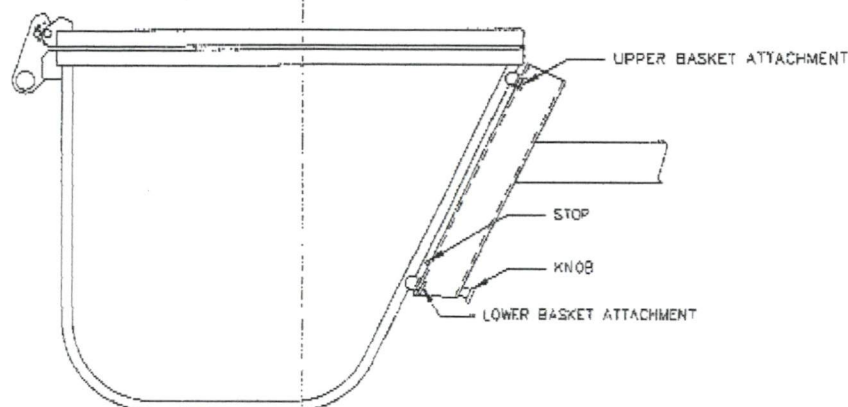
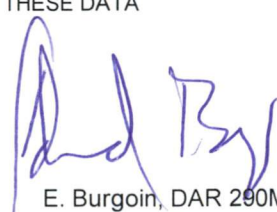


Figure 4 – Basket Attachment

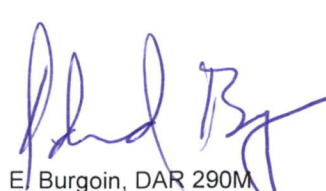
1. Installation - Refer to Figure 4.
  1. Set basket upper attachment into slot on forward and aft beams.
  2. At forward end of basket, lift until lower attachment fitting hits stop over keyway. Push fitting into keyway and slide basket down until locked. Repeat for aft end.
2. Removal - Refer to Figure 4.
  1. Pull knob at bottom end of forward beam and lift basket until lower attachment fitting is free of keyway. Keep upper basket attachment in slot in beam. Repeat for aft end.
  2. Lift basket until upper attachments are out of slots on beams and remove basket from helicopter.



# FORM AE-100

DEPARTMENT OF TRANSPORT STATEMENT OF COMPLIANCE OF AIRCRAFT OR AIRCRAFT COMPONENTS WITH THE AIRWORTHINESS REQUIREMENTS			AE-100 No.: AE802 Initial Issue Date: 14 January, 2009 Revision: 0 Revision Date: Approval No.: SH09- Delegation No.: 290M Delegate Name: E. Burgoin Company: AERO Design Ltd.
Aircraft Mfr: Bell Aircraft Model: 206B Registration: ALL ELIGIBLE	Model / Type Airplane <input type="checkbox"/> Helicopter <input checked="" type="checkbox"/> Appliance <input type="checkbox"/> Component <input type="checkbox"/>		
LIST OF APPROVED REPORTS AND DATA			
Document Number	Revision	Document Title	Compliance Status
DCL802-1	0	Document Control List and all documents referred to therein	As per Compliance Program,
DCL802-11	0	Document Control List and all documents referred to therein	
ER803.01	0	Engineering Report	CP803, Revision 1
TR803.02	0	Test Report	
80201	0	Quick Release Cargo Basket Installation	
80210	0	Cargo Basket Assembly	
80211	0	Cargo Basket Body Fabrication	
80212	0	Cargo Basket Lid Fabrication	
80227	0	Basket Components - Placard	
80322	0	Basket Components - Hoop	
80323	0	Basket Components - Attachment Hoop	
49215	0	Basket Components - Spacer	
49216	0	Basket Components - Spacer	
36255	1	Handle Assembly	
36261	6	Handle Bar Assembly	
36262	1	Handle Bracket Assembly	
36271	1	Handle Lever	
36272	1	Basket Bracket	
36273	1	Lid Bracket	
36274	1	Bushing	
36275	2	Bushing	
36277	0	Handle Bar	
36278	1	Spring	
36280	2	Brace	
DATA APPROVED BY TRANSPORT CANADA			
ICA803.90	0	Instructions for Continued Airworthiness	
FMS803.91	0	Flight Manual Supplement	
CERTIFICATION  UNDER THE AUTHORITY VESTED IN ME BY THE DEPARTMENT OF TRANSPORT, I HEREBY CERTIFY THAT THE DATA LISTED ABOVE AND ON THE ATTACHED SHEETS NUMBERED Nil HAVE BEEN EXAMINED IN ACCORDANCE WITH ESTABLISHED PROCEDURES AND FOUND TO COMPLY, TO THE BEST OF MY KNOWLEDGE AND BELIEF WITH THE PERTINENT COMPLIANCE REQUIRMENTS.  I THEREFORE <input type="checkbox"/> RECOMMEND FOR APPROVAL OF THESE DATA <input checked="" type="checkbox"/> APPROVE THESE DATA   E. Burgoin, DAR 290M			

# FORM AE-100

DEPARTMENT OF TRANSPORT STATEMENT OF COMPLIANCE OF AIRCRAFT OR AIRCRAFT COMPONENTS WITH THE AIRWORTHINESS REQUIREMENTS			AE-100 No.: AE803 Initial Issue Date: 14 January, 2009 Revision: 0 Revision Date:
Aircraft Mfr: Bell Aircraft Model: 206B Registration: ALL ELIGIBLE	Model / Type Airplane <input type="checkbox"/> Helicopter <input checked="" type="checkbox"/> Appliance <input type="checkbox"/> Component <input type="checkbox"/>	Approval No.: SH09- Delegation No.: 290M Delegate Name: E. Burgoin Company: AERO Design Ltd.	
LIST OF APPROVED REPORTS AND DATA			
Document Number	Revision	Document Title	Compliance Status
DCL803-1	0	Document Control List and all documents referred to therein	As per Compliance Program,
DCL803-11	0	Document Control List and all documents referred to therein	
ER803.01	0	Engineering Report	CP803, Revision 1
TR803.02	0	Test Report	
80301	0	Quick Release Cargo Basket Installation	
80310	0	Cargo Basket Assembly	
80311	0	Cargo Basket Body Fabrication	
80312	0	Cargo Basket Lid Fabrication	
80322	0	Basket Components - Hoop	
80323	0	Basket Components - Attachment Hoop	
80324	0	Basket Components - Attachment Hoop	
80327	0	Basket Components - Placard	
49215	0	Basket Components - Spacer	
49216	0	Basket Components - Spacer	
36255	1	Handle Assembly	
36261	6	Handle Bar Assembly	
36262	1	Handle Bracket Assembly	
36271	1	Handle Lever	
36272	1	Basket Bracket	
36273	1	Lid Bracket	
36274	1	Bushing	
36275	2	Bushing	
36277	0	Handle Bar	
36278	1	Spring	
36280	2	Brace	
	2	Brace	
DATA APPROVED BY TRANSPORT CANADA			
ICA803.90	0	Instructions for Continued Airworthiness	
FMS803.91	0	Flight Manual Supplement	
CERTIFICATION  UNDER THE AUTHORITY VESTED IN ME BY THE DEPARTMENT OF TRANSPORT, I HEREBY CERTIFY THAT THE DATA LISTED ABOVE AND ON THE ATTACHED SHEETS NUMBERED Nil HAVE BEEN EXAMINED IN ACCORDANCE WITH ESTABLISHED PROCEDURES AND FOUND TO COMPLY, TO THE BEST OF MY KNOWLEDGE AND BELIEF WITH THE PERTINENT COMPLIANCE REQUIRMENTS.  I THEREFORE <input type="checkbox"/> RECOMMEND FOR APPROVAL OF THESE DATA <input checked="" type="checkbox"/> APPROVE THESE DATA   E/ Burgoin, DAR 290M			

# FORM AE-100

DEPARTMENT OF TRANSPORT STATEMENT OF COMPLIANCE OF AIRCRAFT OR AIRCRAFT COMPONENTS WITH THE AIRWORTHINESS REQUIREMENTS			AE-100 No.: AE811 Initial Issue Date: 14 January, 2009 Revision: 0 Revision Date: Approval No.: SH09- Delegation No.: 290M Delegate Name: E. Burgoin Company: AERO Design Ltd.
Aircraft Mfr: Bell Aircraft Model: 206B Registration: ALL ELIGIBLE	Model / Type Airplane <input type="checkbox"/> Helicopter <input checked="" type="checkbox"/> Appliance <input type="checkbox"/> Component <input type="checkbox"/>		

LIST OF APPROVED REPORTS AND DATA			
Document Number	Revision	Document Title	Compliance Status
DCL811-1	0	Document Control List and all documents referred to therein	As per Compliance Program,  CP803, Revision 1
DCL811-11	0	Document Control List and all documents referred to therein	
ER803.01	0	Engineering Report	
TR803.02	0	Test Report	
81101	0	Quick Release Cargo Basket Installation	
81110	0	Cargo Basket Assembly	
81111	0	Cargo Basket Body Fabrication	
81112	0	Cargo Basket Lid Fabrication	
81127	0	Basket Components - Placard	
80322	0	Basket Components - Hoop	
80324	0	Basket Components - Attachment Hoop	
49215	0	Basket Components - Spacer	
49216	0	Basket Components - Spacer	
36255	1	Handle Assembly	
36261	6	Handle Bar Assembly	
36262	1	Handle Bracket Assembly	
36271	1	Handle Lever	
36272	1	Basket Bracket	
36273	1	Lid Bracket	
36274	1	Bushing	
36275	2	Bushing	
36277	0	Handle Bar	
36278	1	Spring	
36280	2	Brace	
DATA APPROVED BY TRANSPORT CANADA			
ICA803.90	0	Instructions for Continued Airworthiness	
FMS803.91	0	Flight Manual Supplement	

CERTIFICATION

UNDER THE AUTHORITY VESTED IN ME BY THE DEPARTMENT OF TRANSPORT, I HEREBY CERTIFY THAT THE DATA LISTED ABOVE AND ON THE ATTACHED SHEETS NUMBERED Nil HAVE BEEN EXAMINED IN ACCORDANCE WITH ESTABLISHED PROCEDURES AND FOUND TO COMPLY, TO THE BEST OF MY KNOWLEDGE AND BELIEF WITH THE PERTINENT COMPLIANCE REQUIREMENTS.

I THEREFORE ☐ RECOMMEND FOR APPROVAL OF THESE DATA

☒ APPROVE THESE DATA

E. Burgoin, DAR 290M



# FORM AE-100

DEPARTMENT OF TRANSPORT STATEMENT OF COMPLIANCE OF AIRCRAFT OR AIRCRAFT COMPONENTS WITH THE AIRWORTHINESS REQUIREMENTS		AE-100 No.: AE497 Initial Issue Date: 14 January, 2009 Revision: 0 Revision Date:
Aircraft Mfr: Bell Aircraft Model: 206B Registration: ALL ELIGIBLE	Model / Type Airplane <input type="checkbox"/> Helicopter <input checked="" type="checkbox"/> Appliance <input type="checkbox"/> Component <input type="checkbox"/>	Approval No.: SH09- Delegation No.: 290M Delegate Name: E. Burgoin Company: AERO Design Ltd.


## LIST OF APPROVED REPORTS AND DATA

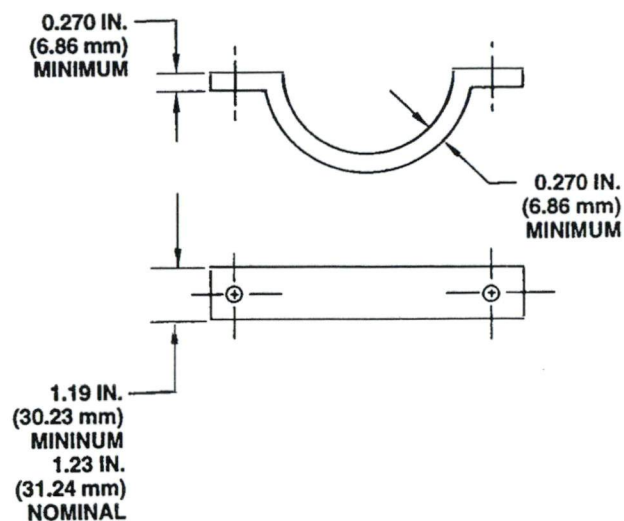
Document Number	Revision	Document Title	Compliance Status
DCL497-1	0	Document Control List and all documents referred to therein	As per Compliance Program,  CP803, Revision 1
DCL497-2	0	Document Control List and all documents referred to therein	
DCL497-11	0	Document Control List and all documents referred to therein	
DCL497-12	0	Document Control List and all documents referred to therein	
ER803.01	0	Engineering Report	
TR803.02	0	Test Report	
49701	0	External Attachment Provisions Installation	
49702	0	Quick Release Mounting Provisions Installation	
49703	0	External Attachment Provisions Installation (Alternate)	
49720	0	Forward Fitting Fabrication	
49721	0	Aft Saddle Fitting Fabrication	
49730	0	Forward Beam Fabrication	
49731	0	Aft Beam Fabrication	
49740	0	Spacer Fabrication	
49311	4	Forward Fitting Fabrication	
DATA APPROVED BY TRANSPORT CANADA			
ICA497.90	0	Instructions for Continued Airworthiness	
ICA497.91	0	Instructions for Continued Airworthiness	
FMS497.92	0	Flight Manual Supplement	

## CERTIFICATION

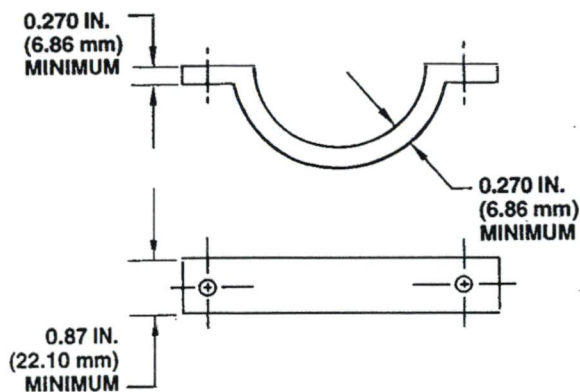
UNDER THE AUTHORITY VESTED IN ME BY THE DEPARTMENT OF TRANSPORT, I HEREBY CERTIFY THAT THE DATA LISTED ABOVE AND ON THE ATTACHED SHEETS NUMBERED Nil HAVE BEEN EXAMINED IN ACCORDANCE WITH ESTABLISHED PROCEDURES AND FOUND TO COMPLY, TO THE BEST OF MY KNOWLEDGE AND BELIEF WITH THE PERTINENT COMPLIANCE REQUIREMENTS.

I THEREFORE ☐ RECOMMEND FOR APPROVAL OF THESE DATA  
☒ APPROVE THESE DATA

  
 E. Burgoin, DAR 290M

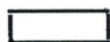


AFT LANDING GEAR STRAP  
FOR STANDARD GEAR  
AFT AND FORWARD STRAP  
FOR HIGH GEAR



FORWARD LANDING GEAR  
STRAP FOR STANDARD GEAR

#### DAMAGE LOCATION SYMBOL



#### TYPE OF DAMAGE

MECHANICAL AND  
CORROSION

MAXIMUM AREA PER  
FULL DEPTH REPAIR

NUMBER OF REPAIRS

EDGE CHAMFER

#### MAXIMUM DAMAGE AND REPAIR DEPTH

Damage not to exceed the above limits after cleanup.  
Damage exceeding a depth of 0.01 in. (0.25 mm) should be  
polished out.

2 Sq. In. (1290.40 mm<sup>2</sup>)

3 per strap

0.05 In. (1.27 mm) by 45 degrees

206A/BS-M-32-6

Figure 32-6. Strap damage limits

## **AIRWORTHINESS NOTICE B043 EDITION 2, dated 28 January 2000**

### **CONFORMITY INSPECTION ASSOCIATED WITH APPLIANCE TYPE CERTIFICATION OR MODIFICATION/REPAIR APPROVAL PROJECTS**

*(This Airworthiness Notice supersedes AN No. B043 Edition 1, dated 24 April 1998.)*

#### **Purpose**

The purpose of this notice is to explain the responsibilities of an applicant prior to requesting a conformity inspection associated with the prototype evaluation of a supplemental type certificate (STC), a limited supplemental type certificate (L/STC), a repair design certificate (RDC), a TSO and/or an appliance type certificate (AP-TC) installation. This revision is intended to clarify the qualifications for those persons responsible for the conformity inspections.

#### **Background**

In several cases, prototype installations have not been performed in accordance with the applicant's installation drawings nor have the necessary ground tests been conducted, where required, prior to seeking a conformity inspection by Transport Canada (TC). This situation may often result in ineffective use of TC resources.

#### **Conformity Requirements (Prototype Installation)**

The need for a conformity inspection by Transport Canada on a prototype installation associated with an STC, L/STC, RDC, AP-TC or TSO design approval project will be determined by the regional engineer responsible for the project, and the applicant will be advised accordingly. Where such a requirement has been identified, the prototype installation is to be verified by the applicant or his designated person for conformity with the applicable installation drawings and, where required, ground tests performed to determine functionality. The above functions are to be carried out prior to the applicant requesting the required conformity inspection by TC representatives.

#### **Confirmation**

A written confirmation is to be provided to the responsible regional project engineer using the Conformity Inspection Record form appended to this notice, or an equivalent form acceptable to TC. The completed form is to be signed by an appropriately rated Aircraft Maintenance Engineer (AME) or Approved Maintenance Organization (AMO). TC form 24-0045 (Conformity Certificate - Repair or Modification), which is intended to certify the installation of an approved modification or repair, should not be used as a Conformity Inspection Record. The Conformity Inspection Record should be accompanied by details pertaining to the location of the test article, the proposed modification or repair, and a proposed date for accomplishing the conformity inspection by TC Airworthiness Inspectors.



# CONFORMITY INSPECTION RECORD

Applicant	Aeronautical Product				Title of Change
	Make	Model	Serial No.	Registration	
AERO Design Ltd.	Bell	206B	2070	C-GABE	Quick Release Mounting Provisions Quick Release Cargo Basket
Drawing No.	Applicant's Inspector Signature	Date	T.C. Inspection Signature	Date	Findings
Provisions					
49703 (Provisions Installation)	<i>[Signature]</i>	KMH 64-08 M253837 2009 Jan 12			
49702 (Beams Installation)	<i>[Signature]</i>	2009 Jan 12			
49730 (Fwd Beam)	<i>[Signature]</i>	Jan 6/09			
49731 (Aft Beam)	<i>[Signature]</i>	↓			
49740 (Spacer)	<i>[Signature]</i>	↓			
Short Basket		KMH 64-08 M253837			
80201 (Installation)	<i>[Signature]</i>	2009 Jan 12			
80210 (Assy)	<i>[Signature]</i>	Jan 6/09			
80211 (Body)	<i>[Signature]</i>	↓			
80212 (Lid)	<i>[Signature]</i>	↓			
Medium Basket					
80301 (Installation)					
80310 (Assy)	<i>[Signature]</i>	Jan 6/09			
80311 (Body)	<i>[Signature]</i>	Jan 6/09			
80312 (Lid)	<i>[Signature]</i>	↓			
Long Basket		KMH 64-08 M253837			
81101 (Installation)	<i>[Signature]</i>	2009 Jan 12			
81110 (Assy)	<i>[Signature]</i>	Jan 6/09			
81111 (Body)	<i>[Signature]</i>	↓			
81112 (Lid)	<i>[Signature]</i>	↓			

JAN-16-2009 11:22 FROM:AERO DESIGN

14032508333

TO:17809626457

P.1

**APPLICANT'S ATTESTATION**

I hereby confirm that the prototype installation for the subject

☒ MODIFICATION,

☐ REPAIR,

☐ TSO/AP-TC ARTICLE

is in conformity with the applicable installation drawing(s) listed above  
and that necessary ground tests have been carried out.  
*(Please check (✓) the applicable box.)*

Additional Information:

Signature: 

KMH 64-08  
M253837

**TC INSPECTION**

☐ ACCEPTABLE

☐ UNACCEPTABLE

Remarks:

Signature: \_\_\_\_\_

**AERO DESIGN LTD.**

2013 – 39<sup>th</sup> Ave N. E., Calgary, Alberta, T2E 6R7

www.aerodesign.ca

**F A X C O V E R S H E E T**

**DATE:** January 16, 2009

**TIME:** 11:00 AM

**TO:** **Darryl**

**PHONE:** 780-293-1212

**FAX:** 780-962-6457

**FROM:** J. Clarke  
Aero Design Ltd.

**PHONE:** 403-250-8027

**FAX:** 403-250-8333

Number of pages including cover sheet: 3

**RE: CONFORMITY INSPECTION SIGN OFF**

---

Darryl,

Please sign the installation lines (49703, 49702, 80201, 80301, and 81101) in the Applicant's Inspector column, and the Applicant's Attestation section with your AME license #.

Please date it January 12, since that's the day it was flown.

Thank you.

  
Jeff



**AERO DESIGN LTD.**

2013 - 39<sup>th</sup> Ave N. E., Calgary, Alberta, T2E 6R7

www.aerodesign.ca

**F A X C O V E R S H E E T**

DATE: January 16, 2009  
*From:* TO: Darryl

TIME: 11:00 AM  
PHONE: 780-293-1212  
FAX: 780-962-6457

*TO:* FROM: J. Clarke  
Aero Design Ltd.

PHONE: 403-250-8027  
FAX: 403-250-8333

Number of pages including cover sheet: 3

**RE: CONFORMITY INSPECTION SIGN OFF**

Darryl,

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Please date it January 12, since that's the day it was flown.

Thank you.

*Jeff Clarke*  
Jeff

*JEFF SIGNED & DELIVERED.*

*CHEERS,*

*BL*

# CONFORMITY INSPECTION RECORD

Applicant	Aeronautical Product				Title of Change
AERO Design Ltd.	Make Bell	Model 206B	Serial No. 2070	Registration C-GABE	Quick Release Mounting Provisions Quick Release Cargo Basket
Drawing No.	Applicant's Inspector Signature	Inspector Date	T.C. Inspection Signature	Inspector Date	Findings
Provisions					
49703 (Provisions Installation)					
49702 (Beams Installation)					
49730 (Fwd Beam)	<i>Jiff Clark</i>	<i>Jan 6/09</i>			
49731 (Aft Beam)	<i>Jiff Clark</i>	↓			
49740 (Spacer)	<i>Jiff Clark</i>				
Short Basket					
80201 (Installation)					
80210 (Assy)	<i>Jiff Clark</i>	<i>Jan 6/09</i>			
80211 (Body)	<i>Jiff Clark</i>	↓			
80212 (Lid)	<i>Jiff Clark</i>				
Medium Basket					
80301 (Installation)					
80310 (Assy)	<i>Jiff Clark</i>	<i>Jan 6/09</i>			
80311 (Body)	<i>Jiff Clark</i>	<i>Jan 6/09</i>			
80312 (Lid)	<i>Jiff Clark</i>	↓			
<del>Long</del> Basket					
81101 (Installation)					
81110 (Assy)	<i>Jiff Clark</i>	<i>Jan 6/09</i>			
81111 (Body)	<i>Jiff Clark</i>	↓			
81112 (Lid)	<i>Jiff Clark</i>				

**APPLICANT'S ATTESTATION**

I hereby confirm that the prototype installation for the subject

☒ MODIFICATION,

☐ REPAIR,

☐ TSO/AP-TC ARTICLE

is in conformity with the applicable installation drawing(s) listed above  
and that necessary ground tests have been carried out.  
*[Please check (✓) the applicable box.]*

Additional Information:

Signature: \_\_\_\_\_

**TC INSPECTION**

☐ ACCEPTABLE

☐ UNACCEPTABLE

Remarks:

Signature: \_\_\_\_\_



# FORM AE-100

DEPARTMENT OF TRANSPORT STATEMENT OF COMPLIANCE OF AIRCRAFT OR AIRCRAFT COMPONENTS WITH THE AIRWORTHINESS REQUIREMENTS		AE-100 No.: AE704 Initial Issue Date: 25 May, 2006  Revision: 5 Revision Date: 14 January 2009  Approval No.: SH09-  Delegation No.: 290M Delegate Name: E. Burgoin Classification of Designee: Employer: AERO Design Ltd.	
Aircraft Mfr: Bell Aircraft Model: 206B Registration: All Eligible		Model Type Airplane <input type="checkbox"/> Helicopter <input checked="" type="checkbox"/> Appliance <input type="checkbox"/> Component <input type="checkbox"/>	
LIST OF APPROVED REPORTS AND DATA			
Document Number		Document Title	Compliance Status
DCL704	Revision 4	Document Control List and all documents referred to therein	
70402	Revision 1	Lid Door Modification	
70403	Revision 3	Auxiliary Latch Modification	
70405	Revision 2	Lid Step Modification	
70406	Revision 1	Open Forward End Modification	
		DATA APPROVED BY TRANSPORT CANADA	
CERTIFICATION  UNDER THE AUTHORITY VESTED IN ME BY THE DEPARTMENT OF TRANSPORT, I HEREBY CERTIFY THAT THE DATA LISTED ABOVE AND ON THE ATTACHED SHEETS NUMBERED Nil HAVE BEEN EXAMINED IN ACCORDANCE WITH ESTABLISHED PROCEDURES AND FOUND TO COMPLY, TO THE BEST OF MY KNOWLEDGE AND BELIEF WITH THE PERTINENT COMPLIANCE REQUIRMENTS.			
I THEREFORE <input type="checkbox"/> RECOMMEND FOR APPROVAL OF THESE DATA <input checked="" type="checkbox"/> APPROVE THESE DATA			
E. Burgoin, DAR 290M			

# MSI 53 – Review of Supplemental Instructions for Continued Airworthiness

## NORMAL CATEGORY ROTORCRAFT – CAR 527

### BLOCK 1

Name of the applicant for the design change approval:	Aero Design Ltd.
Description of the design change:	Installation of Quick Release Cargo Baskets on Bell 206B
Certification Basis of design change and revision date:	CAR 6, Amdt. 6-4
CAR Standard A527.1(c) Program showing how changes to supplemental ICA made by the applicant or by the manufacturers of products and appliances installed in the aeroplane pursuant to the design change will be distributed:	Section 0-3 of Supplemental ICA (ICA 803.90)
CAR Standard 513.05 (1) (g) (iv): Installation Instructions:	Installation Drawing 80201, 80301, 81101

### BLOCK 2

Note: Enter "N/A" when no supplemental ICA are needed.

Regulatory Standard Reference Column 1	Design Approval Holder (DAH) ICA Reference Column 2	Applicant Means of Compliance Supplemental ICA Requirements Column 3
<b>A529.2 (a) Manual(s)</b> (a) The Instructions for Continued Airworthiness must be in the form of a manual or manuals as appropriate for the quantity of data to be provided.	ICA ref: Bell 206B Maintenance Manual, BHT-206B-MM	Supplemental ICA ref: Single Manual (ICA803.90)
<b>A529.2 (b) Practical arrangement</b> (b) The format of the manual or manuals must provide for a practical arrangement.	ICA ref: Bell 206B Maintenance Manual	Supplemental ICA ref: Arranged in ATA format
<b>A529.3</b> The Instructions for Continued Airworthiness must contain the following manuals or sections, as appropriate, and information:		
<b>A529.3 (a) Rotorcraft maintenance manual or section</b>		
<b>A529.3 (a) (1) (Introduction)</b> (1) Introduction information that includes an explanation of the rotorcraft's features and data to the extent necessary for maintenance or preventive maintenance.	ICA ref: Bell 206B Maintenance Manual, Chapter 1	Supplemental ICA ref: Section 0-1
<b>A529.3 (a) (2) (Description)</b> (2) A description of the rotorcraft and its systems and installations including its engines, rotors, and appliances.	ICA ref: Bell 206B Maintenance Manual, Chapter 1	Supplemental ICA ref: Section 0-5



**MSI 53 – Review of Supplemental Instructions for Continued Airworthiness**

Regulatory Standard Reference Column 1	Design Approval Holder (DAH) ICA Reference Column 2	Applicant Means of Compliance Supplemental ICA Requirements Column 3
<b>A529.3 (a) (3) Control &amp; Operation</b> (3) Basic control and operation information describing how the rotorcraft components and systems are controlled and how they operate, including any special procedures and limitations that apply.	ICA ref: N/A	Supplemental ICA ref: N/A
<b>A529.3 (a) (4) Servicing</b> (4) Servicing information that covers details regarding servicing points, capacities of tanks, reservoirs, types of fluids to be used, pressures applicable to the various systems, location of access panels for inspection and servicing, locations of lubrication points, lubricants to be used, equipment required for servicing, tow instructions and limitations, mooring, jacking, and levelling information.	ICA ref: Bell 206B Maintenance Manual, Chapter 12	Supplemental ICA ref: N/A
<b>A529.3</b> The Instructions for Continued Airworthiness must contain the following manuals or sections, as appropriate, and information:		
<b>A529.3 (b) Maintenance Instructions.</b>		
<b>A529.3 (b) (1) Scheduling</b> 1) Scheduling information for each part of the rotorcraft and its engines, auxiliary power units, rotors, accessories, instruments, and equipment that provides the recommended periods at which they should be cleaned, inspected, adjusted, tested, and lubricated, and the degree of inspection, the applicable wear tolerances, and work recommended at these periods. However, the applicant may refer to an accessory, instrument, or equipment manufacturer as the source of this information if the applicant shows that the item has an exceptionally high degree of complexity requiring specialized maintenance techniques, test equipment, or expertise. The recommended overhaul periods and necessary cross-references to the Airworthiness Limitations section of the manual must also be included. In addition, the applicant must include an inspection program that includes the frequency and extent of the inspections necessary to provide for the continued airworthiness of the rotorcraft.	ICA ref: Bell 206B Maintenance Manual, Chapter 5	Supplemental ICA ref: Section 5-1
<b>A529.3 (b) (2) Troubleshooting</b> (2) Troubleshooting information describing probable malfunctions, how to recognize those malfunctions, and the remedial action for those malfunctions.	ICA ref: N/A	Supplemental ICA ref: N/A



# MSI 53 – Review of Supplemental Instructions for Continued Airworthiness

Regulatory Standard Reference Column 1	Design Approval Holder (DAH) ICA Reference Column 2	Applicant Means of Compliance Supplemental ICA Requirements Column 3
<b>A529.3 (b) (3) Removal/replacement</b> (3) Information describing the order and method of removing and replacing products and parts with any necessary precautions to be taken.	ICA ref: Bell 206B Maintenance Manual, Chapter 32	Supplemental ICA ref: Section 25-1 thru 25-2
<b>A529.3 (b) (4) General</b> (4) Other general procedural instructions including procedures for system testing during ground running, symmetry checks, weighing and determining the center of gravity, lifting and shoring, and storage limitations.	ICA ref: Bell 206B Maintenance Manual, Chapter 7 and 8	Supplemental ICA ref: Section 25-3
<b>A529.3 (c) Access</b> (c) Diagrams of structural access plates and information needed to gain access for inspections when access plates are not provided.	ICA ref: N/A	Supplemental ICA ref: N/A
<b>A529.3 (d) Special inspections</b> (d) Details for the application of special inspection techniques including radiographic and ultrasonic testing where such processes are specified.	ICA ref: Bell 206B Maintenance Manual, Chapter 5	Supplemental ICA ref: Section 5-1
<b>A529.3 (e) Protective treatment</b> (e) Information needed to apply protective treatments to the structure after inspection.	ICA ref: Bell Standard Practices Manual BHT-ALL-SPM, Chapter 3	Supplemental ICA ref: Section 5-3
<b>A529.3 (f) Fasteners, torque values, etc</b> (f) All data relative to structural fasteners such as identification, discard recommendations, and torque values.	ICA ref: Bell Standard Practices Manual BHT-ALL-SPM, Chapter 2	Supplemental ICA ref: Section 25-4
<b>A529.3 (g) Special tools</b> (g) A list of special tools needed.	ICA ref: N/A	Supplemental ICA ref: N/A

## MSI 53 – Review of Supplemental Instructions for Continued Airworthiness

### BLOCK 3

Note: The statement in block 5 does not constitute an approval of the Airworthiness Limitations Section. Airworthiness Limitations differ from other maintenance tasks, in that they are mandatory, as a direct condition of the approval of the type design. They are therefore referenced directly in the approval document itself. However, they must also be included in the Supplemental Instructions for Continued Airworthiness.

#### A529.4 AWL - Separate Section 1

The Instructions for Continued Airworthiness must contain a section titled Airworthiness Limitations that is segregated and clearly distinguishable from the rest of the document. This section must set forth each mandatory replacement time, structural inspection interval, and related structural inspection procedure approved under 527.571. If the Instructions for Continued Airworthiness consist of multiple documents, the section required by this paragraph must be included in the principal manual. This section must contain a legible statement in a prominent location that reads: "The Airworthiness Limitations section is approved by the Minister and specifies maintenance required by any applicable airworthiness or operating rule unless an alternative program has been approved by the Minister."

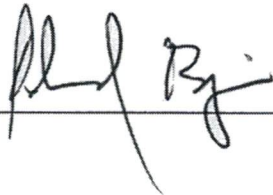
ICA ref: Bell 206BMaintenance  
Manual, Chapter 4

Supplemental ICA ref: Chapter 4

### BLOCK 4 – Applicant Statement of Compliance

The Supplemental ICA referenced above comprises the complete listing of supplemental ICA necessary to show compliance with the regulatory standard that supports this change in type design.

Applicants Signature: \_\_\_\_\_



Date: December 22, 2008

Applicants Name: E. Burgoin, P.Eng, DAR 290M

### BLOCK 5 – Minister's Statement of Acceptability

The design change is adequately supported by existing ICA and/or supplemental ICA, as identified above and is acceptable to the Minister.

Reviewer's Name: \_\_\_\_\_ Phone # \_\_\_\_\_ Email: \_\_\_\_\_ Mail Routing Symbol: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_ NAPA Number \_\_\_\_\_

## **INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA 803.90**

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**BELL 206B**

**QUICK RELEASE CARGO BASKET**

**MODELS: 802, 803 & 811**

### **Preface**

These Instructions for Continued Airworthiness shall be included in the rotorcraft Maintenance Manual when the Quick Release Cargo Basket installed in accordance with AERO Design Ltd. Document Control Lists:

- DCL803-1 (for Installation 80301), Revision 0,
- DCL802-1 (for Installation 80201), Revision 0,
- DCL811-1 (for Installation 81101), Revision 0,

The information contained herein supplements the information in the basic Maintenance Manual. For Maintenance practices and procedures not contained in these Instructions for Continued Airworthiness refer to the basic Maintenance Manual and its approved supplements.

Revision 0  
Date: 18 December 2008

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AERO Design Ltd.  
Engineering Consultants

2013 – 39<sup>th</sup> Avenue N.E., Calgary, Alberta T2E 6R7  
Phone: (403) 250-8027  
Fax: (403) 250-8333  
E-Mail: [infor@aerodesign.ca](mailto:infor@aerodesign.ca)

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**RECORD OF REVISIONS**

Revision Number	Issue Date	Date Inserted	By
0	18 December 2008		Original Issue

**LIST OF EFFECTIVE PAGES**

List of Revisions                      Revision 0 (Original Issue)    18 December, 2008

## List of Effective Pages

<u>Description</u>	<u>Pages</u>	<u>Revision No.</u>
Cover	1	0
Revision Record/List of Effective Pages	2	0
Table of Contents	3	0
00-00-00	4-5	0
04-00-00	6	0
05-00-00	7-8	0
11-00-00	9	0
25-50-00	10-13	0

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## CHAPTER 0 – INTRODUCTION

### 0-1 SCOPE

The following Instructions for Continued Airworthiness (ICA) satisfy the requirements of 14 CFR 27.1529, and provide the information necessary to complete the on-going maintenance and inspections required for rotorcraft embodying the Quick Release Cargo Basket as described herein.

### 0-2 DEFINITIONS AND ABBREVIATIONS

ICA - Instructions for Continued Airworthiness  
LH - Left Hand  
RH - Right Hand

### 0-3 DISTRIBUTION

Copies of this ICA and amendments shall be distributed to all known purchasers of the Quick Release Cargo Basket. Requests for a copy may be made in writing to:

AERO Design Ltd.  
2013 39<sup>th</sup> Avenue N.E.  
Calgary, Alberta  
T2E 6R7  
Fax: 403-250-8333  
Email: [info@aerodesign.ca](mailto:info@aerodesign.ca)

Any changes will be sent to Transport Canada. All changes will be recorded in the Record of Revisions page at the front of this document.

### 0-4 COMPATIBILITY

Prior to incorporating this modification, the installer shall establish that the inter-relationship between this change and any other modification(s) incorporated will not adversely affect the airworthiness of the helicopter.



## 0-5 GENERAL DESCRIPTION

The cargo basket installation is a metal mesh basket installed to the side of the helicopter on beams attached to the new landing gear attachment fittings. The quick release basket allows for the installation and removal of the basket without tools, allowing a pilot operating in the field without maintenance support to install or remove the basket, leaving the mounting beams in place.

The basket itself is made of a steel welded tubing structure, and lined with expanded steel mesh. The basket has a hinged lid with a self-locking handle.

The beams consist of a steel tube bolted to new landing gear saddle fittings in the front, and new strap fittings in the rear. The quick release mechanism is built into the steel tube.

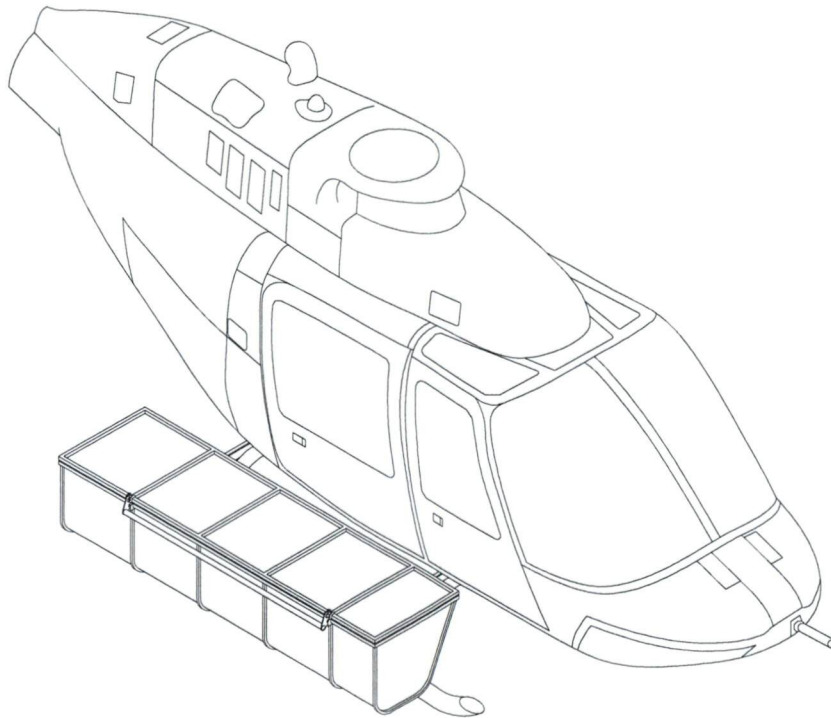


Figure 1 – Bell 206B Cargo Basket (Long)

## CHAPTER 4 - AIRWORTHINESS LIMITATIONS

### *Transport Canada*

The Airworthiness Limitations section is Transport Canada-approved and specifies maintenance required under Section 571 of the Canadian Aviation Regulations, unless an alternative program has been approved.

### *FAA*

The Airworthiness Limitations section is FAA approved and specifies maintenance required under Sections 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

No additional airworthiness limitations have been imposed due the installation of the Quick Release Cargo Basket.

## CHAPTER 5 – INSPECTION REQUIREMENTS

### 5-1 INSPECTION SCHEDULE

Continued airworthiness is contingent upon compliance with the following inspection items. These items shall be completed in conjunction with the rotorcraft Maintenance Inspection schedule, or other approved program, or upon removal and replacement of any component of Quick Release Cargo Basket.

#### *Daily Inspection*

1. Inspection Area: Basket
  - a) Inspect the basket attachment to the beams for condition and security. Ensure quick release mechanism is completely extended, flush with the outboard surface of the beam.
  - b) Inspect latching of the lid for correct operation. If basket is bent inward the lid will close but may not latch.

#### *300 Hour or Annual Inspection*

1. Inspection Area: Basket
  - a) Visually inspect tube-to-tube welds and mesh-to-tube welds for cracks, corrosion or other damage.
  - b) Visually inspect basket mesh for damage.

#### *Special Inspections*

Following a hard landing inspect the Quick Release Cargo Basket installation in accordance with the 300 hour or annual inspection listed above.

### 5-2 DAMAGE LIMITS / REPAIR INSTRUCTIONS

If damage is found in the inspections above, repair in accordance with the instructions below.

1. Basket
  - a) Repair Basket in accordance with AC43.13-1B, Chapter 4, Section 5, Welding, as required.
  - b) Basket is fabricated from the following materials:

Attachment Hoops:	1" square steel tube and/or 1/2" square steel tube
Lid and Rim:	3/4" square steel tube
Frames:	1/2" square steel tube
Mesh:	3/4" 16 ga. (0.040") expanded steel mesh
  - c) Touch up with polyurethane paint as required following repairs.



### **5-3 PROTECTIVE TREATMENT INFORMATION**

#### **1. Cargo Basket**

The cargo basket is supplied powder coated white. If the powder coat is damaged, touch up with white polyurethane paint.

**CHAPTER 11 – MARKINGS AND PLACARDS**

The following markings and placards are used with the Quick Release Cargo Basket Installation in the locations noted:

a) Located on basket lid:

**Short Basket:**



**Medium Basket:**



**Long Basket:**



## CHAPTER 25 – EQUIPMENT AND FURNISHINGS

### SECTION 50 – CARGO COMPARTMENTS

#### 25-1 BASKET INSTALLATION

Installation of the External Attachment Provisions and Quick Release Mounting Provisions is required prior to installing the Quick Release Cargo Basket. Refer to ICA497.90 and ICA497.91.

Refer to Figure 4 and Figure 5.

1. Set basket upper attachment into upper keyway in forward and aft beams.
2. At forward attachment hoop, lift basket until lower attachment fitting hits stop.
3. Push fitting into keyway and slide basket down until locked.
4. Repeat step 2 and Step 3 for aft attachment hoop.

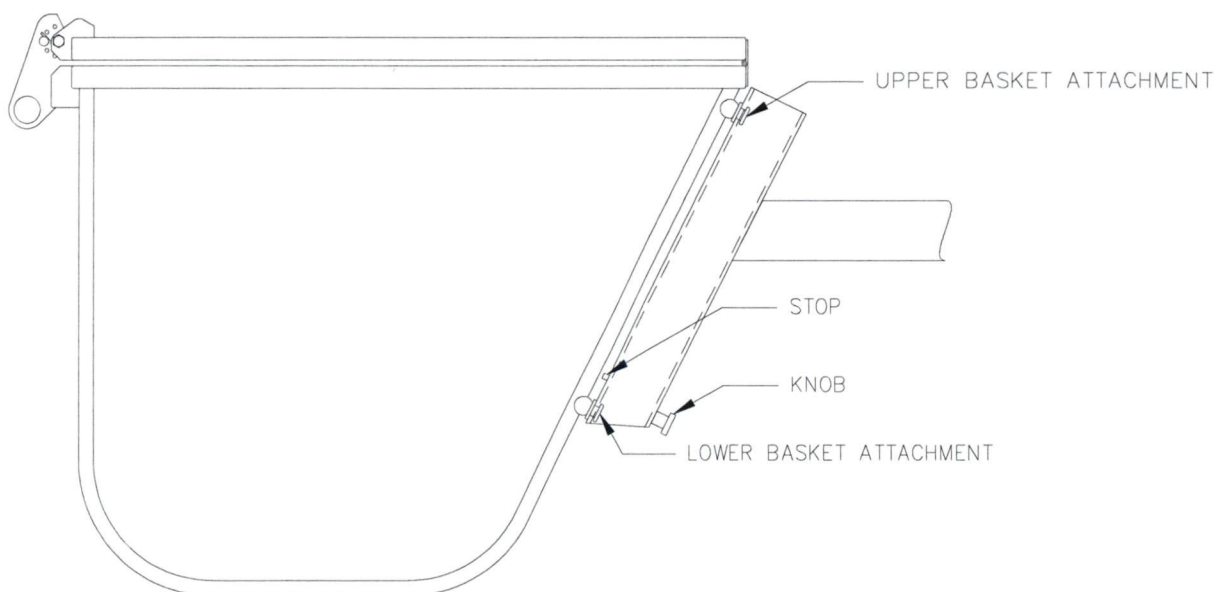


Figure 2 – Basket Attachment Features

#### 25-2 BASKET REMOVAL

Refer to Figure 4 and Figure 5.

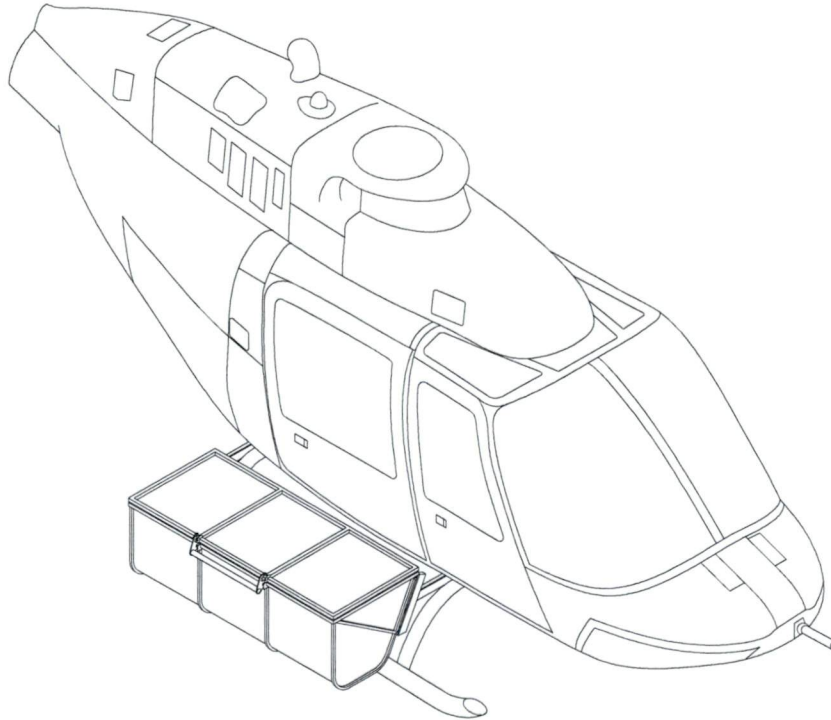
1. Pull knob at bottom end of forward beam and lift basket until lower attachment fitting is free of keyway. Keep upper basket attachment in keyway on beam.
2. Pull knob at bottom end of aft beam and lift basket until lower attachment fitting is free of keyway. Keep upper basket attachment in keyway on beam.
3. Lift basket until upper attachments are out of keyways on both beams and remove basket from helicopter.



### 25-3 WEIGHT AND BALANCE

This section contains weight and balance information for cargo basket models 803, 802 and 811. Refer to the weight and balance information applicable to basket model installed.

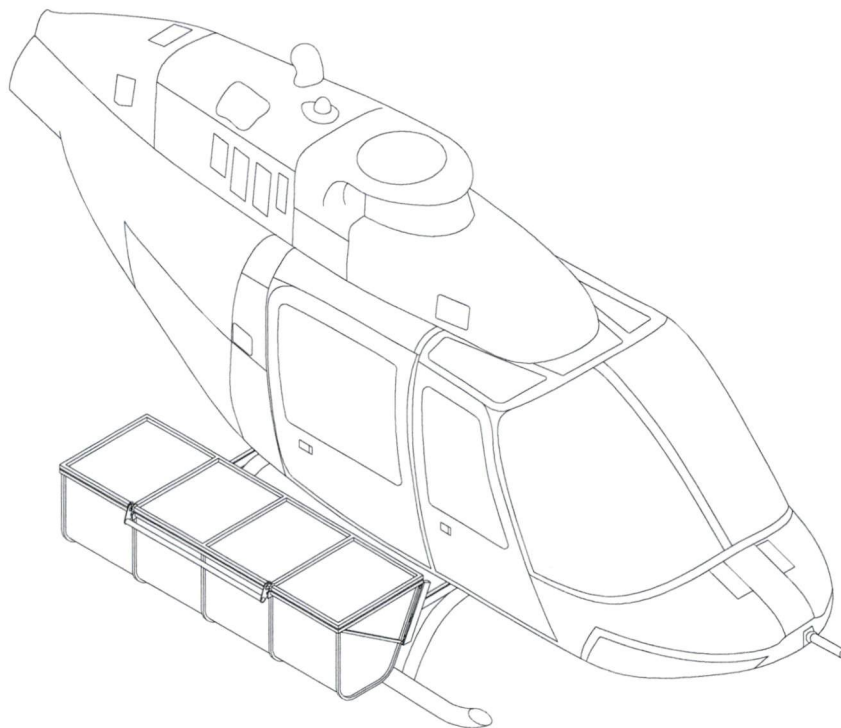
**MODEL 80201.** The following weight and balance is for the cargo basket installed in accordance with drawing 80201.



Quick Release Cargo Basket: Configuration 80201-01

P/N	Description	Weight	Longitudinal		Lateral	
		lb	arm in	moment in-lb	arm in	moment in-lb
80210-01	Basket	35.0	102.8	3598.0	42.4	1484.0
49702-01	Quick Release Mounting Provisions	26.1	98.4	2568.8	13.1	289.0
<b>80201-01</b>	<b>Basket Installation</b>	<b>61.1</b>	<b>100.9</b>	<b>6166.8</b>	<b>29.0</b>	<b>1773.0</b>
	Maximum Cargo (centred in basket)	200.0	102.8	20560.0	42.4	8480.0

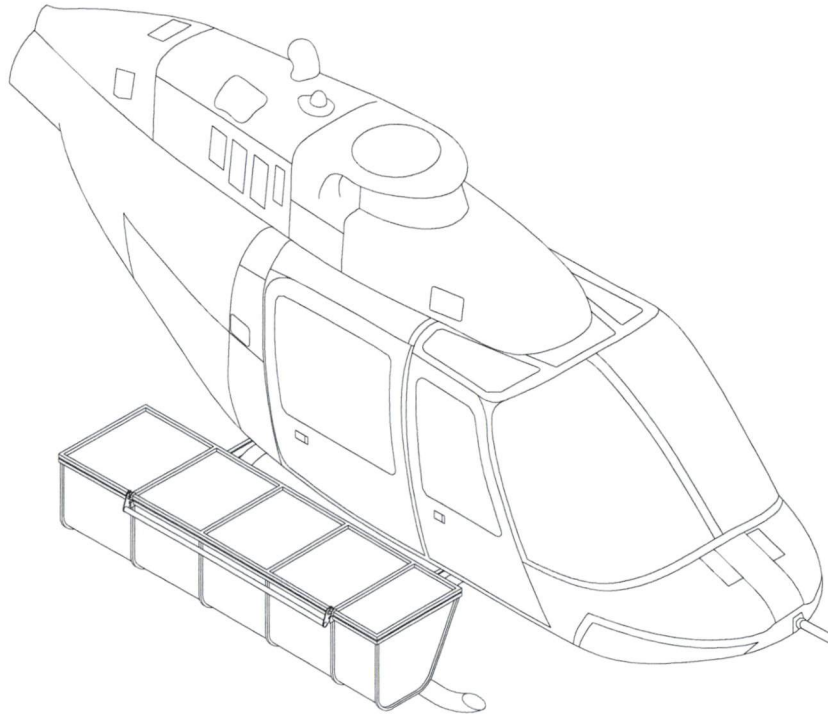
**MODEL 80301.** The following weight and balance is for the cargo basket installed in accordance with drawing 80301.



Quick Release Cargo Basket: Configuration 80301-01

P/N	Description	Weight	Longitudinal		Lateral	
		lb	arm in	moment in-lb	arm in	moment in-lb
80210-01	Basket	45.0	111.9	5035.5	42.4	1908.0
49701-01	Quick Release Mounting Provisions	26.1	98.4	2568.8	13.1	289.0
<b>80201-01</b>	<b>Basket Installation</b>	<b>71.1</b>	<b>107.0</b>	<b>7604.3</b>	<b>30.9</b>	<b>2197.0</b>
	Maximum Cargo (centred in basket)	200.0	111.9	22380.0	42.4	8480.0

**MODEL 81101.** The following weight and balance is for the cargo basket installed in accordance with drawing 81101.



Quick Release Cargo Basket: Configuration 81101-01

P/N	Description	Weight	Longitudinal		Lateral	
		lb	arm in	moment in-lb	arm in	moment in-lb
81110-01	Basket	50.0	105.9	5925.0	42.4	2120.0
49702-01	Quick Release Mounting Provisions	26.1	98.4	2568.8	13.1	289.0
<b>81101-01</b>	<b>Basket Installation</b>	<b>76.1</b>	<b>103.3</b>	<b>7863.8</b>	<b>31.7</b>	<b>2409.0</b>
	Maximum Cargo (centred in basket)	200.0	105.9	21180.0	42.4	8480.0

## 25-6 STRUCTURAL FASTENER DATA

Refer to Bell Standard Practices Manual for torque values not listed in this ICA.



**AERO Design Ltd.**

**ENGINEERING REPORT**

**ER803.01**

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**QUICK RELEASE CARGO BASKETS**

**BELL 206B**

Prepared by: Jeff Clarke

Approved by: E. Burgoin, P.Eng., DAR 290M

Revision 0

Date: 18 December, 2008

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AERO Design Ltd.  
*Engineering Consultants*  
[www.aerodesign.ca](http://www.aerodesign.ca)

2013 – 39<sup>th</sup> Avenue N.E., Calgary, Alberta T2E 6R7  
Phone: (403) 250-8027  
Fax: (403) 250-8333

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## 1.0 INTRODUCTION

The AERO Design Ltd. quick release cargo baskets developed for the Bell 206B Helicopter have been designed to meet the requirements of various flight missions. Three lengths are available: 54" long, 72" long and 84" long. The cargo baskets mount onto the helicopter using attachments built into replacement landing gear fittings, similar to the Bell 206L/407 installation. The allowable load in all of the baskets is 200 lbs.

## 2.0 REFERENCE TEXT

AERO Design Ltd. Drawings 80201  
AERO Design Ltd. Drawings 80301  
AERO Design Ltd. Drawings 81101  
AERO Design Ltd. Drawings 49703  
AERO Design Ltd. Engineering Report ER497.01  
AERO Design Ltd. Test Report TR362.02  
AERO Design Ltd. Test Report TR811.02  
AERO Design Ltd. Test Report TR751.02  
MIL-HDBK-5J

## 3.0 BASIS OF CERTIFICATION

*Bell 206B: H-92*

CAR 6 dated December 20, 1956, Amendments 6-1 thru 6-4, CAR 6.307(b) and 6.637 of Amendment 6-5, Special Conditions dated October 2, 1962, as revised February 8, 1966.

*This installation:*

Same as the basis of certification for Bell 206B shown above.

## 4.0 APPLICABILITY OF AIRWORTHINESS DIRECTIVES

Airworthiness Directives applicable to the Bell 206B were reviewed and none were found to affect this project.



## 5.0 LOADS

Bell 206B, CAR 6:

CAR 6.620(c)

Ultimate Upward Emergency Landing Load Factor:	$n_{e\_up} := 1.5$
Ultimate Forward Emergency Landing Load Factor:	$n_{e\_fwd} := 4.0$
Ultimate Sideward Emergency Landing Load Factor:	$n_{e\_side} := 2.0$
Ultimate Downward Emergency Landing Load Factor:	$n_{e\_down} := 4.0$

CAR 6.307(d) Fitting Factor (does not apply to articles being tested):  $n_{ff} := 1.15$

CAR 6.200 Safety Factor:  $n_{sf} := 1.5$

CAR 6.212

	Limit Positive Maneuvering Load Factor:	$n_{man} := 3.5$
$n_{man\_ult} := n_{man} \cdot n_{sf}$	Ultimate Positive Maneuvering Load Factor:	$n_{man\_ult} = 5.25$
	Limit Negative Maneuvering Load Factor:	$n_{man\_neg} := -1.0$
$n_{man\_neg\_u} := n_{man\_neg} \cdot n_{sf}$	Ultimate Negative Maneuvering Load Factor:	$n_{man\_neg\_u} = -1.5$

### CRITICAL ULTIMATE LOAD FACTORS:

Downward:	Ultimate Positive Maneuvering Load Factor:	$n_{man\_ult} = 5.25$
Forward:	Ultimate Forward Emergency Landing Load Factor:	$n_{e\_fwd} = 4$
Sideward:	Ultimate Sideward Emergency Landing Load Factor:	$n_{e\_side} = 2$
Upward:	Ultimate Upward Emergency Landing Load Factor:	$n_{e\_up} = 1.5$

Note: The basket is mounted below and to one side of the cabin. Forward deflection or failure in the emergency landing condition does not endanger the occupants. Likewise, Sideward and Upward deflection or failure of the basket in the emergency landing condition do not endanger the occupants.

Sideward and Upward Load Factors are used in the tests to ensure that the lid of the basket does not open in flight.

### 5.1 Inertia Loads

There are multiple lengths of baskets to be produced. The length determines the type of construction of the basket.

### 5.1.1 Cargo Basket 81110 (Long Basket)

$W_{\text{basket}} := 50\text{ lbf}$	Weight of cargo basket 81110 (84" long)
$W_{\text{cargo}} := 200\text{ lbf}$	Weight of cargo (max)
$W_{\text{beam}} := 10\text{ lbf}$	Weight of mounting beam (each)
$P_{\text{basket}} := W_{\text{basket}} + W_{\text{cargo}} + 2 \cdot W_{\text{beam}}$	
$P_{\text{basket}} = 270\text{ lbf}$	Combined weight of basket and cargo
$P_{\text{lim\_man}} := P_{\text{basket}} \cdot n_{\text{man}}$	
$P_{\text{lim\_man}} = 945\text{ lbf}$	Limit maneuvering load
$P_{\text{ult\_man}} := P_{\text{basket}} \cdot n_{\text{man\_ult}}$	
$P_{\text{ult\_man}} = 1417.5\text{ lbf}$	Ultimate maneuvering load
$P_{\text{lim\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg}}$	
$P_{\text{lim\_cargo\_neg}} = -200\text{ lbf}$	Limit negative maneuvering load due to cargo
$P_{\text{ult\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg\_u}}$	
$P_{\text{ult\_cargo\_neg}} = -300\text{ lbf}$	Ultimate negative maneuvering load due to cargo

### 5.1.2 Cargo Basket 80301 (Medium Basket)

$W_{\text{basket}} := 45\text{ lbf}$	Weight of cargo basket 80310 (72" long)
$W_{\text{cargo}} := 200\text{ lbf}$	Weight of cargo (max)
$W_{\text{beam}} := 10\text{ lbf}$	Weight of mounting beam (each)
$P_{\text{basket}} := W_{\text{basket}} + W_{\text{cargo}} + 2 \cdot W_{\text{beam}}$	
$P_{\text{basket}} = 265\text{ lbf}$	Combined weight of basket and cargo
$P_{\text{lim\_man}} := P_{\text{basket}} \cdot n_{\text{man}}$	
$P_{\text{lim\_man}} = 927.5\text{ lbf}$	Limit maneuvering load
$P_{\text{ult\_man}} := P_{\text{basket}} \cdot n_{\text{man\_ult}}$	
$P_{\text{ult\_man}} = 1391.3\text{ lbf}$	Ultimate maneuvering load
$P_{\text{lim\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg}}$	
$P_{\text{lim\_cargo\_neg}} = -200\text{ lbf}$	Limit negative maneuvering load due to cargo
$P_{\text{ult\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg\_u}}$	
$P_{\text{ult\_cargo\_neg}} = -300\text{ lbf}$	Ultimate negative maneuvering load due to cargo

### 5.1.3 Cargo Basket 77601 / 77602 (Short Basket)

$W_{\text{basket}} := 35 \text{ lbf}$	Weight of cargo basket 80210 (54" long)
$W_{\text{cargo}} := 200 \text{ lbf}$	Weight of cargo (max)
$W_{\text{beam}} := 10 \text{ lbf}$	Weight of mounting beam (each)
$P_{\text{basket}} := W_{\text{basket}} + W_{\text{cargo}} + 2 \cdot W_{\text{beam}}$	
$P_{\text{basket}} = 255 \text{ lbf}$	Combined weight of basket and cargo
$P_{\text{lim\_man}} := P_{\text{basket}} \cdot n_{\text{man}}$	
$P_{\text{lim\_man}} = 892.5 \text{ lbf}$	Limit maneuvering load
$P_{\text{ult\_man}} := P_{\text{basket}} \cdot n_{\text{man\_ult}}$	
$P_{\text{ult\_man}} = 1338.8 \text{ lbf}$	Ultimate maneuvering load
$P_{\text{lim\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg}}$	
$P_{\text{lim\_cargo\_neg}} = -200 \text{ lbf}$	Limit negative maneuvering load due to cargo
$P_{\text{ult\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg\_u}}$	
$P_{\text{ult\_cargo\_neg}} = -300 \text{ lbf}$	Ultimate negative maneuvering load due to cargo

## 5.2 Drag Load

All of the baskets have the same frontal area.

$l_{\text{basket}} := 84 \text{ in}$	Length of basket.
$w_{\text{basket}} := 22.5 \text{ in}$	Width of basket (analyzed as rectangular frontal area).
$h_{\text{basket}} := 19.25 \text{ in}$	Height of basket.
$A_f := 333 \text{ in}^2$	Frontal Area of basket.
$A_p := l_{\text{basket}} \cdot w_{\text{basket}}$	
$A_p = 1890 \text{ in}^2$	Planar Area of basket.
$\frac{l_{\text{basket}}}{w_{\text{basket}}} = 3.7$	Fineness ratio of basket
$C_{Do} := 1.1$	Drag Coefficient of Basket, (overestimated) (Ref. Hoerner, Fluid Dynamic Drag, Figure 22).



$$\rho := 0.002378 \frac{\text{slug}}{\text{ft}^3}$$

Density of air at Sea Level.

$$V_{ne} := 150 \text{ mph}$$

Never-Exceed-Speed of Bell 206B.  
(Ref. Flight Manual)

$$V_d := \frac{V_{ne}}{0.9}$$

$$V_d = 167 \text{ mph}$$

Design Dive Speed of bell 206B

$$P_{\text{drag}} := \frac{\rho}{2} \cdot V_d^2 \cdot A_f C_{Do}$$

$$P_{\text{drag}} = 1811 \text{ lbf}$$

Limit Drag on basket.

$$P_{\text{drag\_ult}} := P_{\text{drag}} \cdot n_{sf}$$

$$P_{\text{drag\_ult}} = 2711 \text{ lbf}$$

Ultimate Drag load on basket

## 6.0 STRUCTURAL COMPLIANCE

### 6.1 Positive Maneuvering and Drag Condition

Structural compliance of the installations for the positive maneuvering and drag condition is shown by test. Refer to Test Report TR803.02 for results. The tests were performed on an actual helicopter, so all components of the installation (basket, beams, and fittings including the helicopter attachments) have been demonstrated to be acceptable.

### 6.2 Forward Emergency Landing Condition

The basket is installed below and to the side of the cabin. Deflection or failure in a forward direction does not endanger occupants of the cabin and does not impede egress.

### 6.3 Upward Emergency Landing Condition

The lid must remain closed in the upward emergency landing condition. This was demonstrated for 300 lb cargo load in TR751.02. The handle and hinge configurations tested in TR751.02 are identical to this installation. The upward emergency landing condition has been demonstrated to be acceptable.

### 6.4 Sideward Emergency Landing Condition

The handle must remain latched in the sideward emergency landing condition. This was demonstrated in TR362.02. The handle configuration tested in TR362.02 is identical to this installation. The sideward emergency landing condition has been demonstrated to be acceptable.

**AERO** Design Ltd.

**TEST REPORT  
TR803.02**

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**QUICK RELEASE CARGO BASKET**

**Bell 206B**

Approved: E. Burgoin, P. Eng.

Prepared by: J. Clarke

Revision 0  
Date: 18 December 2008

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**AERO** Design Ltd.  
Engineering Consultants

2013 – 39<sup>th</sup> Avenue N.E., Calgary, Alberta T2E 6R7  
Phone: (403) 250-8027  
Fax: (403) 250-8333  
E-Mail: [info@aerodesign.ca](mailto:info@aerodesign.ca)

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## **1.0 INTRODUCTION**

This plan shall demonstrate structural compliance for the Bell 206B quick release cargo basket and mounting provisions in the positive maneuvering and drag condition.

## **2.0 REFERENCE**

AERO Design Ltd. Engineering Report ER803.01

AC 43.13-2A Chapter 1 Paragraph 3

### 3.0 LOADS

Bell 206B, CAR 6:

CAR 6.620(c)

Ultimate Upward Emergency Landing Load Factor:	$n_{e\_up} := 1.5$
Ultimate Forward Emergency Landing Load Factor:	$n_{e\_fwd} := 4.0$
Ultimate Sideward Emergency Landing Load Factor:	$n_{e\_side} := 2.0$
Ultimate Downward Emergency Landing Load Factor:	$n_{e\_down} := 4.0$

CAR 6.307(d)      Fitting Factor (does not apply to articles being tested):  $n_{ff} := 1.15$

CAR 6.200      Safety Factor:  $n_{sf} := 1.5$

CAR 6.212

	Limit Positive Maneuvering Load Factor:	$n_{man} := 3.5$
$n_{man\_ult} := n_{man} \cdot n_{sf}$	Ultimate Positive Maneuvering Load Factor:	$n_{man\_ult} = 5.25$
	Limit Negative Maneuvering Load Factor:	$n_{man\_neg} := -1.0$
$n_{man\_neg\_u} := n_{man\_neg} \cdot n_{sf}$	Ultimate Negative Maneuvering Load Factor:	$n_{man\_neg\_u} = -1.5$

#### CRITICAL ULTIMATE LOAD FACTORS:

Downward:	Ultimate Positive Maneuvering Load Factor:	$n_{man\_ult} = 5.25$
Forward:	Ultimate Forward Emergency Landing Load Factor:	$n_{e\_fwd} = 4$
Sideward:	Ultimate Sideward Emergency Landing Load Factor:	$n_{e\_side} = 2$
Upward:	Ultimate Upward Emergency Landing Load Factor:	$n_{e\_up} = 1.5$

Note: The basket is mounted below and to one side of the cabin. Forward deflection or failure in the emergency landing condition does not endanger the occupants. Likewise, Sideward and Upward deflection or failure of the basket in the emergency landing condition do not endanger the occupants.

Sideward and Upward Load Factors are used in the tests to ensure that the lid of the basket does not open in flight.

This report only deals with the positive maneuvering condition.

### 3.1 Inertia Loads

There are multiple lengths of baskets to be produced. The length determines the type of construction of the basket.

**3.1.1 Cargo Basket 81101**

$W_{\text{basket}} := 50\text{ lbf}$	Weight of cargo basket 81110 (84" long)
$W_{\text{cargo}} := 200\text{ lbf}$	Weight of cargo (max)
$W_{\text{beam}} := 10\text{ lbf}$	Weight of mounting beam (each)
$P_{\text{basket}} := W_{\text{basket}} + W_{\text{cargo}} + 2 \cdot W_{\text{beam}}$	
$P_{\text{basket}} = 270\text{ lbf}$	Combined weight of basket and cargo
$P_{\text{lim\_man}} := P_{\text{basket}} \cdot n_{\text{man}}$	
$P_{\text{lim\_man}} = 945\text{ lbf}$	Limit maneuvering load
$P_{\text{ult\_man}} := P_{\text{basket}} \cdot n_{\text{man\_ult}}$	
$P_{\text{ult\_man}} = 1417.5\text{ lbf}$	Ultimate maneuvering load
$P_{\text{lim\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg}}$	
$P_{\text{lim\_cargo\_neg}} = -200\text{ lbf}$	Limit negative maneuvering load due to cargo
$P_{\text{ult\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg\_u}}$	
$P_{\text{ult\_cargo\_neg}} = -300\text{ lbf}$	Ultimate negative maneuvering load due to cargo

**3.1.2 Cargo Basket 80301**

$W_{\text{basket}} := 45\text{ lbf}$	Weight of cargo basket 80310 (72" long)
$W_{\text{cargo}} := 200\text{ lbf}$	Weight of cargo (max)
$W_{\text{beam}} := 10\text{ lbf}$	Weight of mounting beam (each)
$P_{\text{basket}} := W_{\text{basket}} + W_{\text{cargo}} + 2 \cdot W_{\text{beam}}$	
$P_{\text{basket}} = 265\text{ lbf}$	Combined weight of basket and cargo
$P_{\text{lim\_man}} := P_{\text{basket}} \cdot n_{\text{man}}$	
$P_{\text{lim\_man}} = 927.5\text{ lbf}$	Limit maneuvering load
$P_{\text{ult\_man}} := P_{\text{basket}} \cdot n_{\text{man\_ult}}$	
$P_{\text{ult\_man}} = 1391.3\text{ lbf}$	Ultimate maneuvering load
$P_{\text{lim\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg}}$	
$P_{\text{lim\_cargo\_neg}} = -200\text{ lbf}$	Limit negative maneuvering load due to cargo
$P_{\text{ult\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg\_u}}$	
$P_{\text{ult\_cargo\_neg}} = -300\text{ lbf}$	Ultimate negative maneuvering load due to cargo

### 3.1.3 Cargo Basket 80201

$W_{\text{basket}} := 35 \cdot \text{lbf}$	Weight of cargo basket 80210 (54" long)
$W_{\text{cargo}} := 200 \cdot \text{lbf}$	Weight of cargo (max)
$W_{\text{beam}} := 10 \cdot \text{lbf}$	Weight of mounting beam (each)
$P_{\text{basket}} := W_{\text{basket}} + W_{\text{cargo}} + 2 \cdot W_{\text{beam}}$	
$P_{\text{basket}} = 255 \cdot \text{lbf}$	Combined weight of basket and cargo
$P_{\text{lim\_man}} := P_{\text{basket}} \cdot n_{\text{man}}$	
$P_{\text{lim\_man}} = 892.5 \cdot \text{lbf}$	Limit maneuvering load
$P_{\text{ult\_man}} := P_{\text{basket}} \cdot n_{\text{man\_ult}}$	
$P_{\text{ult\_man}} = 1338.8 \cdot \text{lbf}$	Ultimate maneuvering load
$P_{\text{lim\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg}}$	
$P_{\text{lim\_cargo\_neg}} = -200 \cdot \text{lbf}$	Limit negative maneuvering load due to cargo
$P_{\text{ult\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg\_u}}$	
$P_{\text{ult\_cargo\_neg}} = -300 \cdot \text{lbf}$	Ultimate negative maneuvering load due to cargo

### 3.2 Drag Loads

All of the baskets have the same frontal area.

$l_{\text{basket}} := 84 \cdot \text{in}$	Length of basket.
$w_{\text{basket}} := 22.5 \cdot \text{in}$	Width of basket (analyzed as rectangular frontal area).
$h_{\text{basket}} := 19.25 \cdot \text{in}$	Height of basket.
$A_f := 333 \cdot \text{in}^2$	Frontal Area of basket.
$A_p := l_{\text{basket}} \cdot w_{\text{basket}}$	
$A_p = 1890 \cdot \text{in}^2$	Planar Area of basket.
$\frac{l_{\text{basket}}}{w_{\text{basket}}} = 3.7$	Fineness ratio of basket
$C_{Do} := 1.1$	Drag Coefficient of Basket, (overestimated) (Ref. Hoerner, Fluid Dynamic Drag, Figure 22).



$$\rho := 0.002378 \frac{\text{slug}}{\text{ft}^3}$$

Density of air at Sea Level.

$$V_{ne} := 150 \text{ mph}$$

Never-Exceed-Speed of Bell 206B.  
(Ref. Flight Manual)

$$V_d := \frac{V_{ne}}{0.9}$$

$$V_d = 167 \text{ mph}$$

Design Dive Speed of bell 206B

$$P_{\text{drag}} := \frac{\rho}{2} \cdot V_d^2 \cdot A_F C_{Do}$$

$$P_{\text{drag}} = 1811 \text{ bf}$$

Limit Drag on basket.

$$P_{\text{drag\_ult}} := P_{\text{drag}} \cdot n_{sf}$$

$$P_{\text{drag\_ult}} = 2711 \text{ bf}$$

Ultimate Drag load on basket

## 4.0 LOAD TEST PLAN

The entire installation (basket, beams, and attachment fittings) is tested. The External Attachment Provisions were installed on a helicopter in accordance with drawing 49703. The Quick Release Mounting Provisions were installed on the External Attachment Provisions in accordance with drawing 49702. The basket is then installed on the Quick Release Mounting Provisions in accordance with drawing 80201, 80301, and 81101 as applicable.

### 4.1 Positive Maneuvering / Drag Condition

#### 4.1.1 Limit Load

The basket shall be loaded with bags of lead shot (25lb each), evenly distributed over the bottom of the basket. The drag load shall be applied simultaneously by pulling on the forward frame of the basket with a chain connected to a come-along and a load cell.

Record the position of the basket prior to loading. Record the deflections under load. Record the position of the basket after the load is removed. Determine by comparison if deformation if present.

#### 4.1.2 Ultimate Load

The basket shall be loaded with bags of lead shot (25lb each), evenly distributed over the bottom of the basket. The drag load shall be applied simultaneously by pulling on the forward frame of the basket with a chain connected to a come-along and a load cell.

Record the position of the basket prior to loading. Record the deflections under load. Record the position of the basket after the load is removed. Determine by comparison if deformation if present.

## 5.0 LOAD TEST RESULTS – 81101 CONFIGURATION (LONG BASKET)

### 5.1 Positive Maneuvering / Drag Condition

#### 5.1.1 Limit Load

Limit maneuvering load in test = 945 lbs

Limit drag in test = 181 lbs

The basket was loaded with 950 lbs of lead shot (38 bags at 25lb each), evenly distributed over the bottom. The limit drag load applied was 190 lbs. Deflection at the outboard forward corner under load was 2". There was no permanent deformation of the basket, beams or attachments after the limit load was removed.

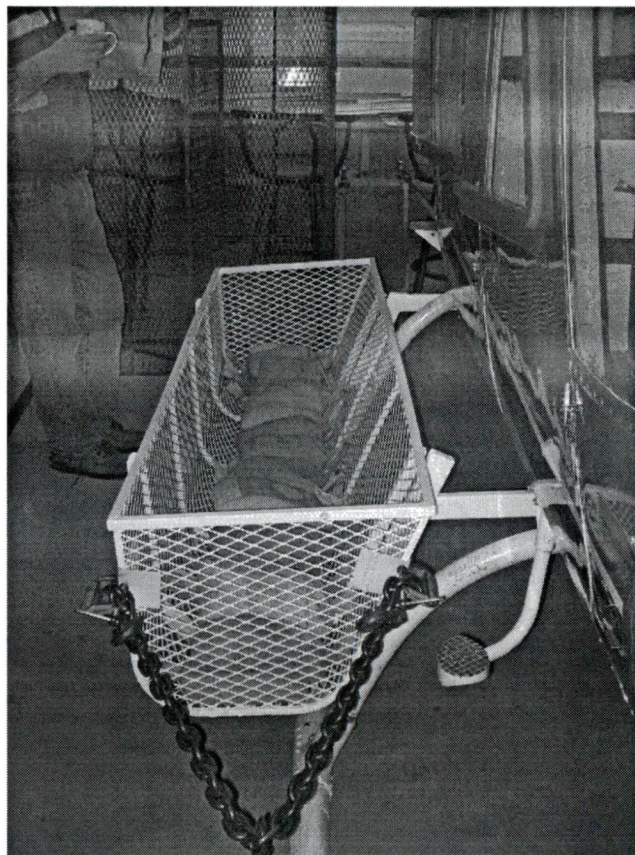


Figure 5.1.1 – Limit Maneuvering Load



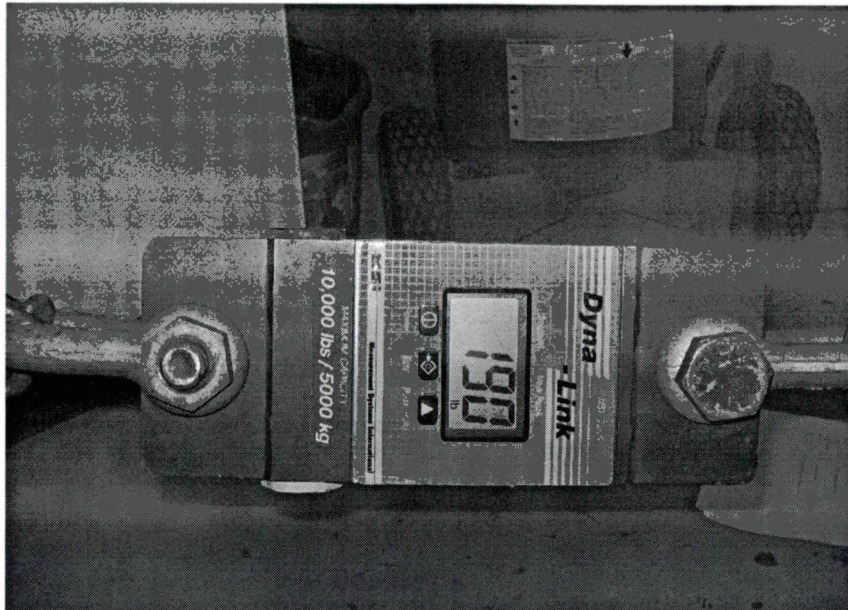


Figure 5.1.2 – Limit Drag Load

### 5.1.2 Ultimate Load

Ultimate maneuvering load in test = 1417.5 lbs

Ultimate drag in test = 271 lbs

The basket was loaded with 1400 lbs of lead shot (56 bags at 25lb each), evenly distributed over the bottom. The weight of the basket and beams applies more than the 17.5 lbs required to reach ultimate. The ultimate drag load applied was 300 lbs. Deflection at the outboard forward corner under load was 3.75". There was no permanent deformation of the basket or the attachments after the ultimate load was removed. There was slight permanent deformation of the rear beam after the load was removed, but no failure.

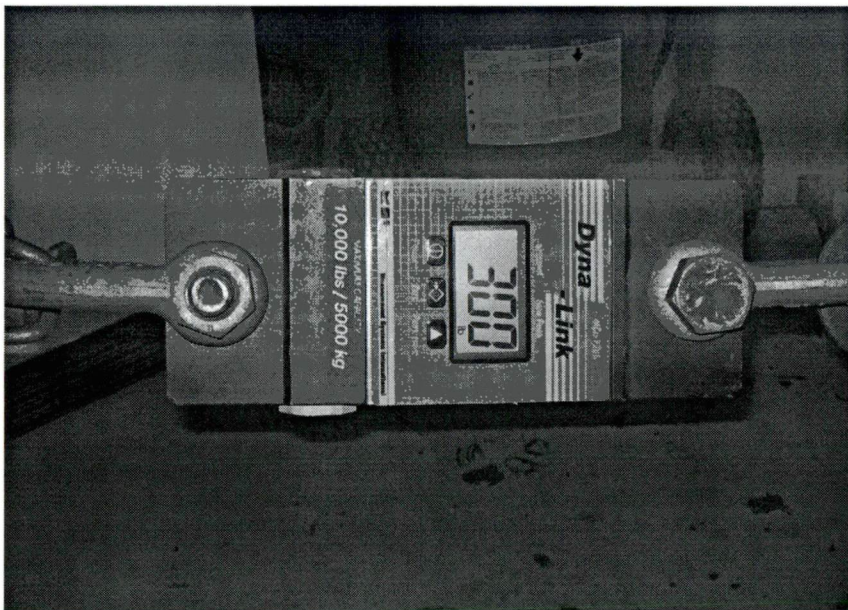


Figure 5.1.3 – Ultimate Drag Load

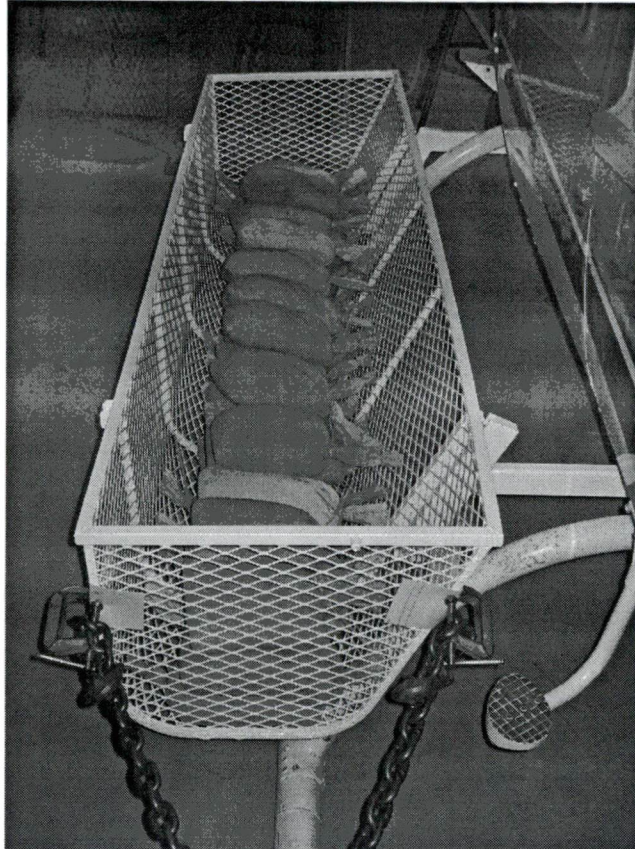


Figure 5.1.4 – Ultimate Maneuvering Load

The Cargo Basket configuration 81101 is acceptable for installation with 200 lbs cargo.

## 6.0 LOAD TEST RESULTS – 80301 CONFIGURATION (MEDIUM BASKET)

### 6.1 Positive Maneuvering / Drag Condition

#### 6.1.1 Limit Load

Limit maneuvering load in test = 927.5 lbs

Limit drag in test = 181 lbs

The basket was loaded with 950 lbs of lead shot (38 bags at 25lb each), evenly distributed over the bottom. The limit drag load applied was 190 lbs. Deflection at the outboard forward corner under load was 1.8". There was no permanent deformation of the basket, beams or attachments after the limit load was removed.





Figure 6.1.1 – Limit Maneuvering Load

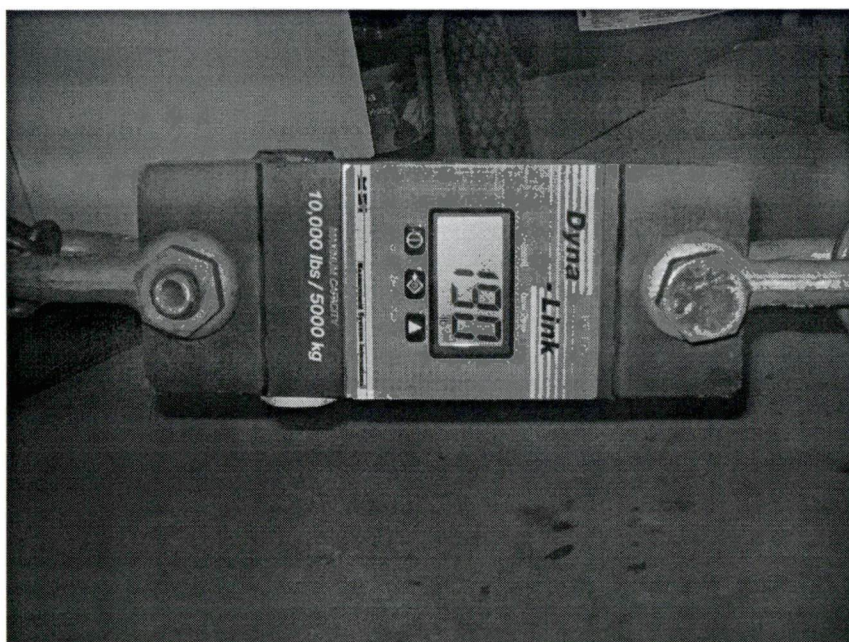


Figure 6.1.2 – Limit Drag Load



### 6.1.2 Ultimate Load

Ultimate maneuvering load in test = 1391.3 lbs

Ultimate drag in test = 271 lbs

The basket was loaded with 1400 lbs of lead shot (56 bags at 25lb each), evenly distributed over the bottom. The ultimate drag load applied was 300 lbs. Deflection at the outboard forward corner under load was 3". There was no permanent deformation of the basket, beams or attachments after the ultimate load was removed.

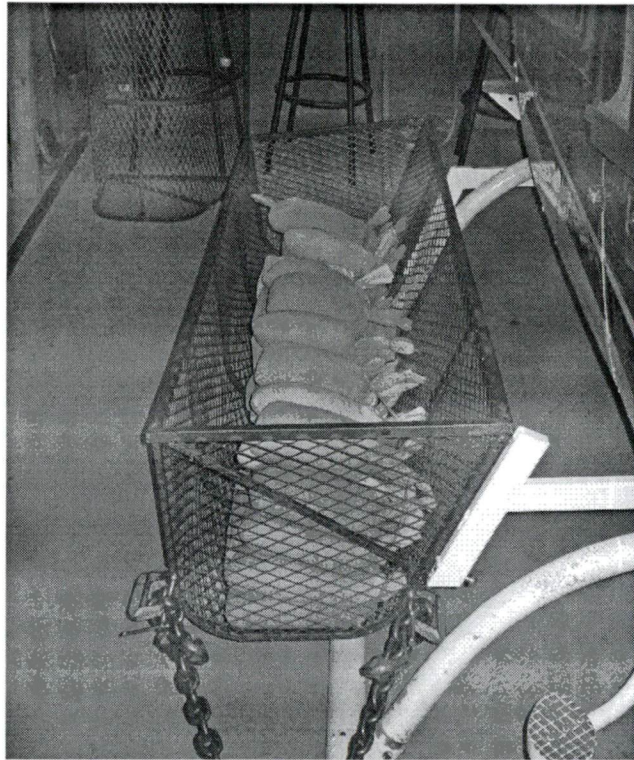


Figure 6.1.3 – Ultimate Maneuvering Load

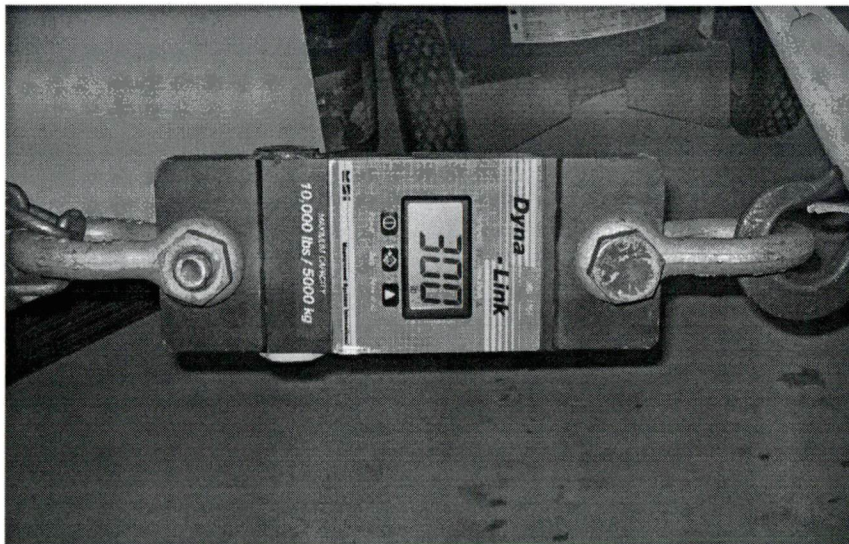


Figure 6.1.4 – Ultimate Drag Load

The Cargo Basket configuration 80301 is acceptable for installation with 200 lbs cargo.

## 7.0 LOAD TEST RESULTS – 80201 CONFIGURATION (SHORT BASKET)

### 7.1 Positive Maneuvering / Drag Condition

#### 7.1.1 Limit Load

Limit maneuvering load in test = 892.5 lbs

Limit drag in test = 181 lbs

The basket was loaded with 950 lbs of lead shot (38 bags at 25lb each), evenly distributed over the bottom. The limit drag load applied was 190 lbs. Deflection at the outboard forward corner under load was 2". There was no permanent deformation of the basket, beams or attachments after the limit load was removed.



Figure 7.1.1 – Limit Maneuvering Load



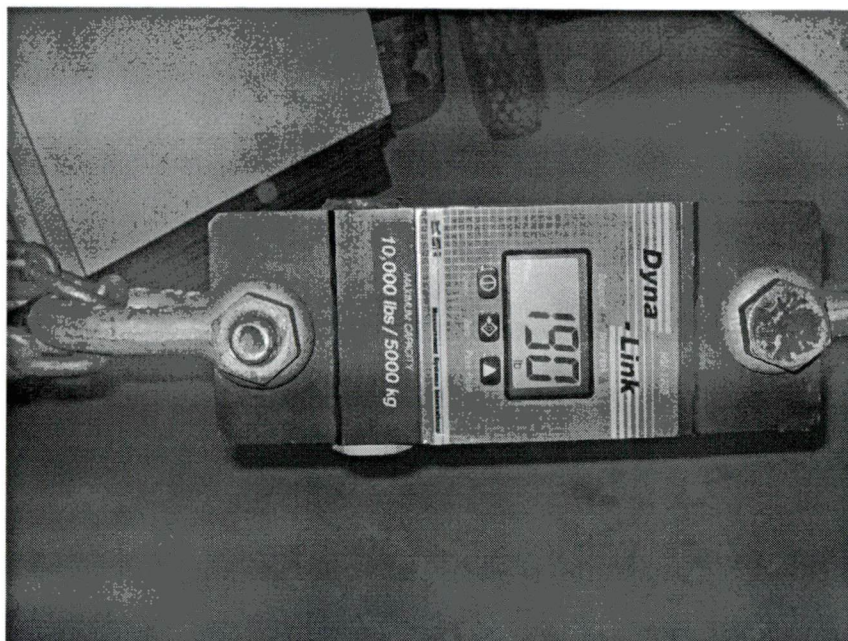


Figure 7.1.2 – Limit Drag Load

### 7.1.2 Ultimate Load

Ultimate maneuvering load in test = 1338.8 lbs

Ultimate drag in test = 271 lbs

The basket was loaded with 1400 lbs of lead shot (56 bags at 25lb each), evenly distributed over the bottom. The ultimate drag load applied was 300 lbs. Deflection at the outboard forward corner under load was 3.4". There was no permanent deformation of the basket, beams or attachments after the ultimate load was removed.

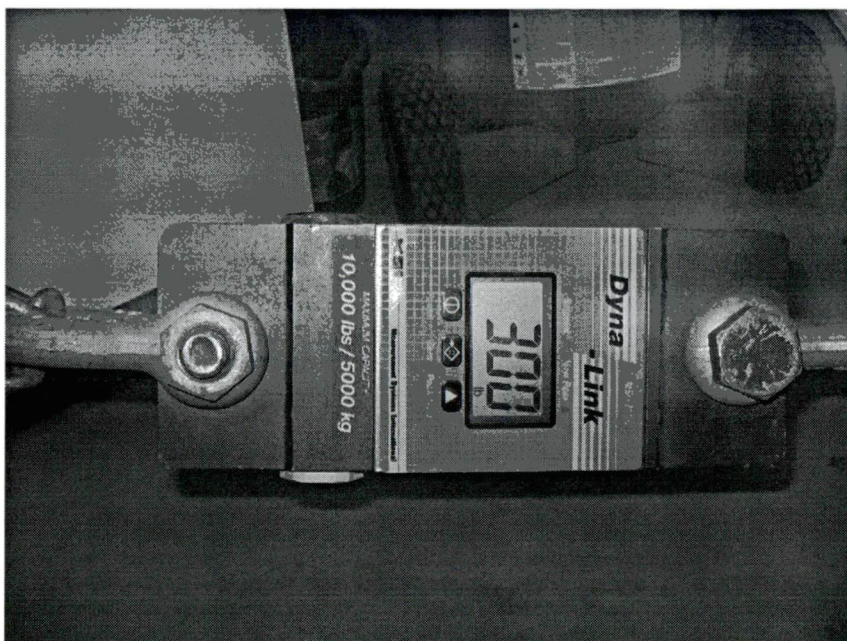


Figure 7.1.3 – Ultimate Drag Load

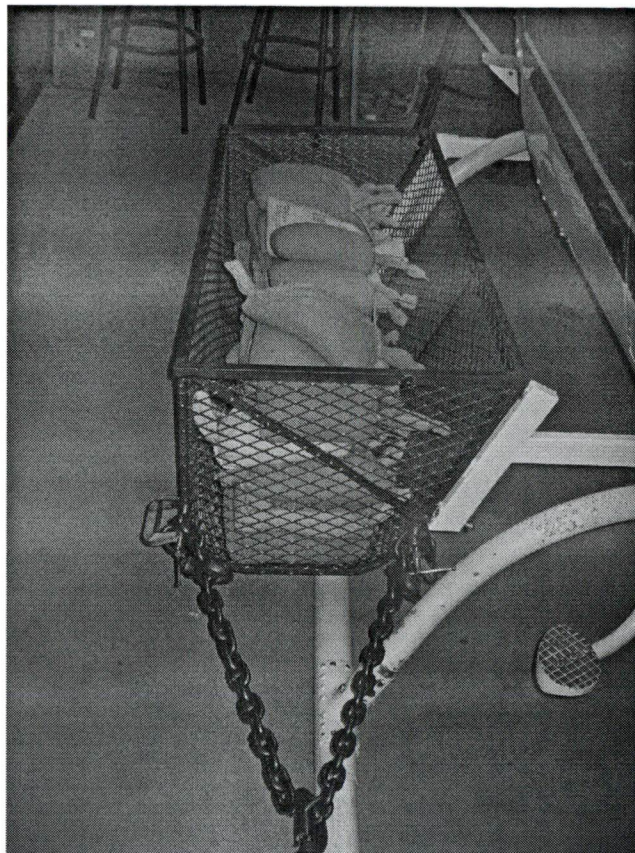


Figure 7.1.4 – Ultimate Maneuvering Load

The Cargo Basket configuration 80201 is acceptable for installation with 200 lbs cargo.



## BELL 206B

### **ROTORCRAFT FLIGHT MANUAL SUPPLEMENT** for the **INSTALLATION of the AERO DESIGN** **QUICK RELEASE CARGO BASKET**

Supplemental Type Certificate No. SH09-XX

Sections I, II, III and IV of this document comprise the Transport Canada Approved sections of this Flight Manual Supplement. Compliance with Section I, Limitations, is mandatory.

Section V and any subsequent sections if present are Unapproved and are provided for information only.

The information and data contained in this Flight Manual Supplement supersede or supplement that contained in the basic Approved Flight Manual for the Bell 206B when fitted with the Quick Release Cargo Basket Installation. For limitations, procedures and performance not listed in this Flight Manual Supplement, refer to the Approved Flight Manual and other approved Flight Manual Supplements.



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### Record of Revisions

Revision	Issue Date	Pages Revised	Date Inserted	By
0	18 Dec. 2008	Original Issue		

## **I LIMITATIONS**

1. The maximum load in the AERO Design Ltd. Quick Release Cargo Basket is 200 lb.
2. Flight operations limited to VFR conditions with AERO Design Ltd. Cargo Basket installed.
3.  $V_{NE}$  is not changed from the basic rotorcraft.

## **II NORMAL PROCEDURES**

1. Pre-flight inspections:
  - a) Ensure that all cargo stored in the cargo basket is properly tied down and secured for flight.
  - b) Ensure that the lid of cargo basket is closed and secured.
  - c) Ensure the basket is locked in position on the beams. Pull up on the forward and aft end of the basket to check.

### **CAUTION**

It is possible to exceed the lateral centre of gravity limits of the rotorcraft under some loading conditions. Pilots must ensure that lateral C of G is within limits when loading the basket.

## **III EMERGENCY PROCEDURES**

No change from basic Approved Flight Manual.

### **CAUTION:**

The rotorcraft glide angle is steeper than that of the basic helicopter when the AERO Design Ltd. Cargo Basket is installed.

## **IV PERFORMANCE**

Climb performance may be reduced by up to 350 fpm.

Cruise speeds are reduced by approximately 10 MPH (9 KIAS).

## V WEIGHT AND BALANCE

1. The following weight and balance is for the short quick release cargo basket configuration, installed in accordance with drawing 80201.

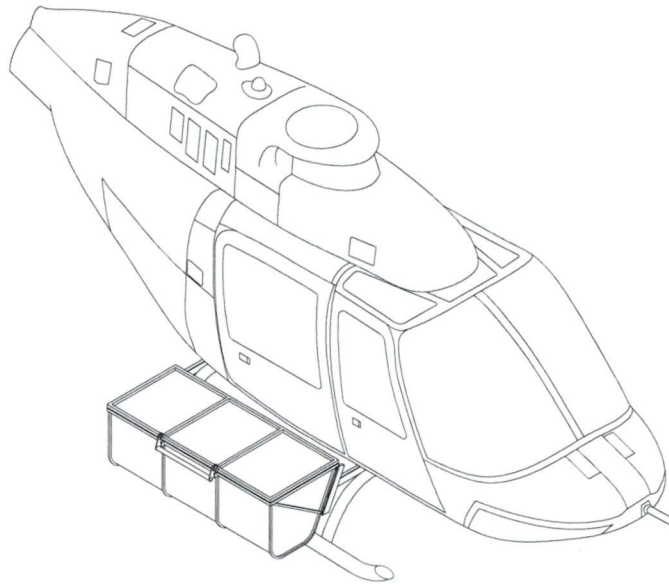


Figure 1 – Low Mounted Quick Release Cargo Basket Configuration

Short Quick Release Cargo Basket Configuration

Item	Weight	Longitudinal		Lateral	
		Arm	Moment	Arm	Moment
Cargo Basket Only <sup>1</sup>	35.0 lb	102.8 in	3 598 in*lb	42.4 in	1 484 in*lb
Cargo <sup>2</sup> (MAX)	200 lb	102.8 in	20 560 in*lb	42.4 in	8480 in*lb



2. The following weight and balance is for the medium quick release cargo basket configuration, installed in accordance with drawing 80301.

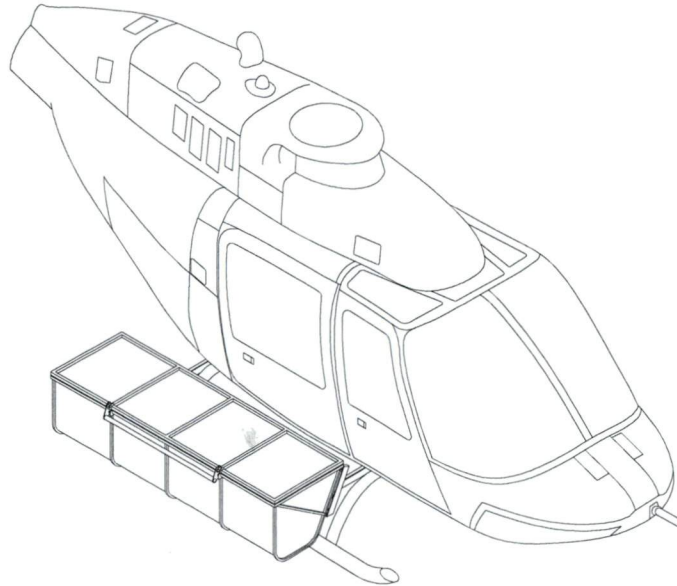


Figure 2 – Low Mounted Quick Release Cargo Basket Configuration

Medium Quick Release Cargo Basket Configuration

Item	Weight	Longitudinal		Lateral	
		Arm	Moment	Arm	Moment
Cargo Basket Only <sup>1</sup>	45.0 lb	111.9 in	5 036 in*lb	42.4 in	1 908 in*lb
Cargo <sup>2</sup> (MAX)	200 lb	111.9 in	22 380 in*lb	42.4 in	8480 in*lb

3. The following weight and balance is for the low mounted quick release cargo basket configuration, installed in accordance with drawing 81101.

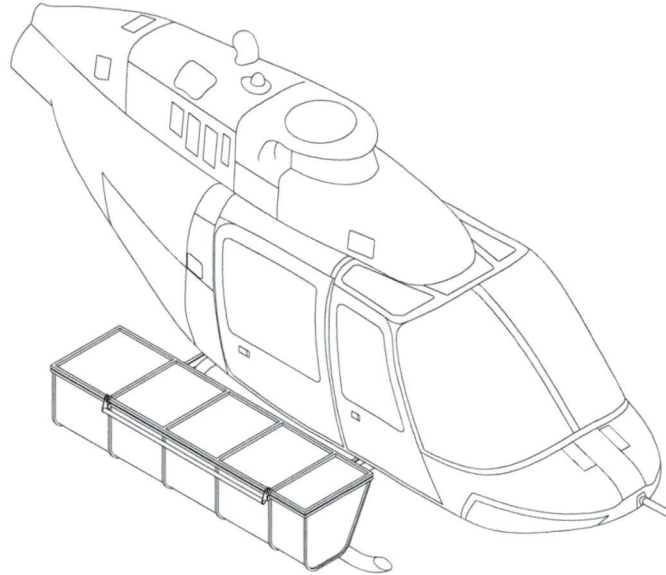


Figure 3 – Low Mounted Quick Release Cargo Basket Configuration

Low Mounted Quick Release Cargo Basket Configuration

Item	Weight	Longitudinal		Lateral	
		Arm	Moment	Arm	Moment
Cargo Basket Only <sup>1</sup>	50.0 lb	105.9 in	5 925 in*lb	42.4 in	2 120 in*lb
Cargo <sup>2</sup> (MAX)	200 lb	105.9 in	21 180 in*lb	42.4 in	8 480 in*lb

AERO DESIGN LTD.

FMS803.91

<sup>1</sup> Weight and balance is for Cargo Basket only. Mounting beams and attachment provisions are not included since they should have been included in the basic rotorcraft weight and balance at time of initial installation.

<sup>2</sup> Longitudinal and Lateral moment arms are given only for the center of the Cargo Basket. Due to the length of the basket, some loading arrangements may require that actual moment arms be measured, to determine the correct moments about the center of gravity.

**CAUTION:**

It is possible to exceed lateral CG limits in some configurations.



## VI INSTALLATION / REMOVAL INSTRUCTIONS

The basket is installed in accordance with drawing 81101. The beams are installed in accordance with drawing 49702. Removal of the basket leaving the beams in place is an approved configuration for flight. Logbook entry indicating installation or removal of basket and weight and balance amendment is required when basket is installed or removed.

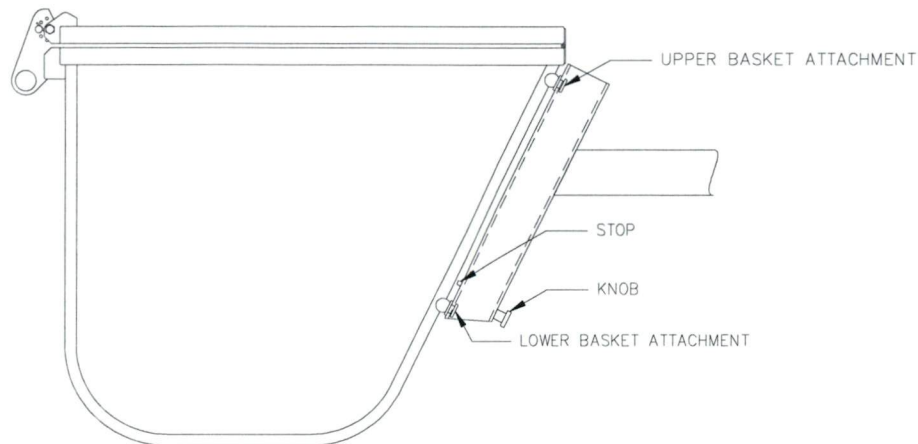


Figure 4 – Basket Attachment


1. Installation - Refer to Figure 4.
  1. Set basket upper attachment into slot on forward and aft beams.
  2. At forward end of basket, lift until lower attachment fitting hits stop over keyway. Push fitting into keyway and slide basket down until locked. Repeat for aft end.
2. Removal - Refer to Figure 4.
  1. Pull knob at bottom end of forward beam and lift basket until lower attachment fitting is free of keyway. Keep upper basket attachment in slot in beam. Repeat for aft end.
  2. Lift basket until upper attachments are out of slots on beams and remove basket from helicopter.

## STAFF INSTRUCTION 513-008

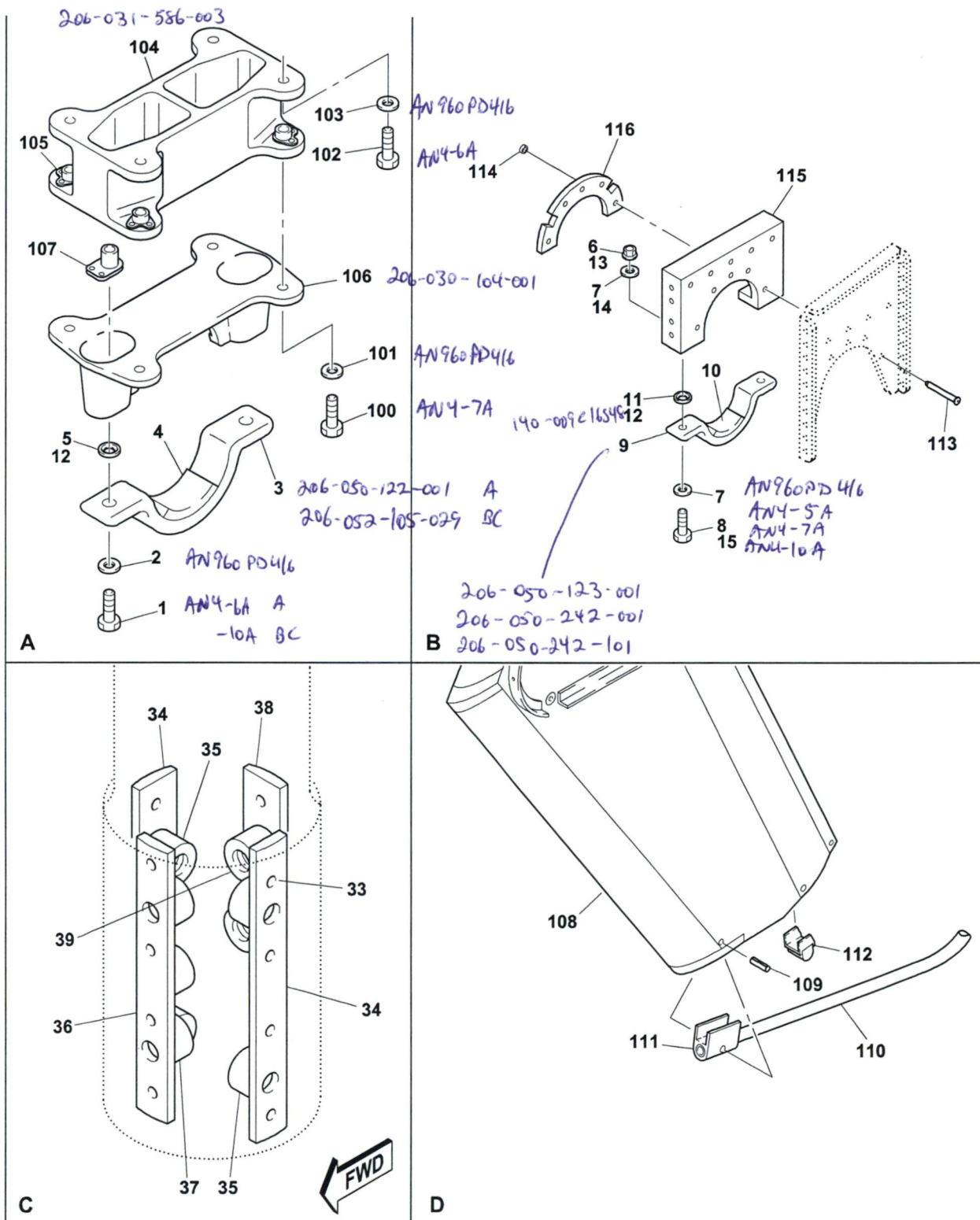
### Flight Test Division Support of Regional Flight Test Activities

#### Appendix A – Statement of Suitability for Flight Test

Aircraft Type/Model	Bell 206B
Registration	C-GABE
Serial Number	2070
Description of Design Change(s)	Installation of Aero Design Ltd. Quick Release Cargo Basket.
Design Drawings	See Document Control Lists DCL497-1, DCL497-2, DCL802-1, DCL803-1, DCL811-1

Statement of Suitability for Flight Test	
This is to certify that I have reviewed the subject design change and that I have reasonable assurance that compliance could be found with all applicable design requirements, except for those requirements that will be substantiated by flight-testing. I consider the aircraft to be safe for flight.	
Regional Engineer, Aircraft Certification, or Authorized Person 	Date

A - S/N 4-2488  
 B - S/N 2489-3121  
 C - S/N 3122-SUB



206AB\_IPB\_32\_0007

Figure 32-3. Kit, High Skid Gear and Support Installation (Sheet 2 of 4)



C S/N 4-2488  
 N S/N 2489-3121  
 Q S/N 3122-SUB

4-103  
 104-4  
 4360-4462  
 4360-SUB

**Bell Helicopter**  
 A Textron Company

BHT-206A/B-SERIES-IPB

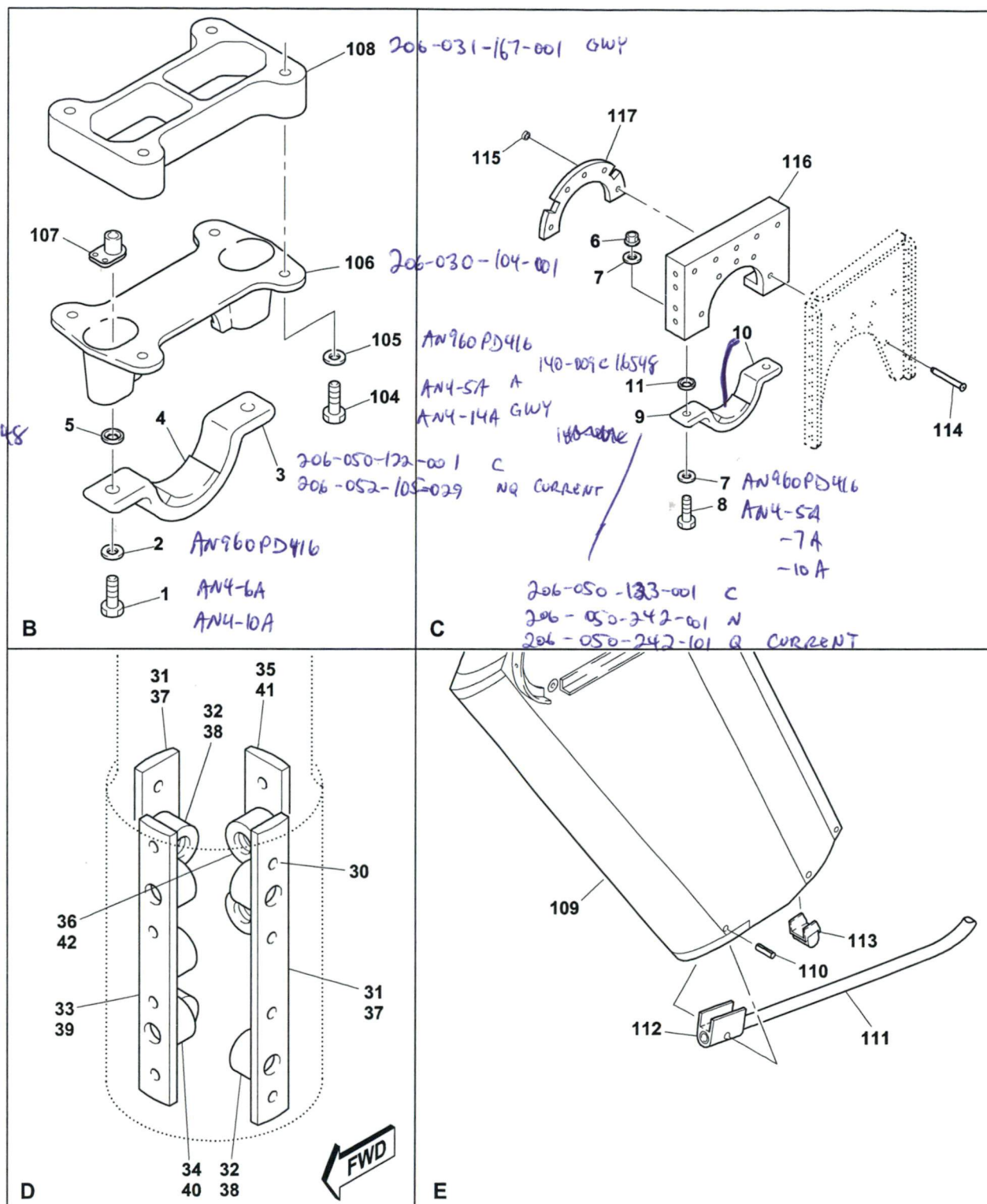


Figure 32-2. Landing Gear and Support Assemblies, Standard Low; and Skid Assembly, Tail  
 (Sheet 2 of 3)

206AB\_IPB\_32\_0002

FOR BEST VALUE, BUY GENUINE BELL PARTS

15 MAR 2006 Rev. 6

32-99-00  
 Page 9

6. In the event it is impossible to align all of the holes, position assemblies in the most advantageous position. Holes that do not align may be elongated (using a rat tail file) to allow for bolt installation. Maximum elongation permitted is 0.045 inch (1.14 mm). Only one elongated hole per row is permitted.

7. Position saddles onto crosstube (figure 32-9). Install and tighten screws **T** at positions 1 through 9.

8. Apply a fillet of sealant (C-392) around top edge of saddle and crosstube.

### 32-14. INSTALLATION.

#### CAUTION

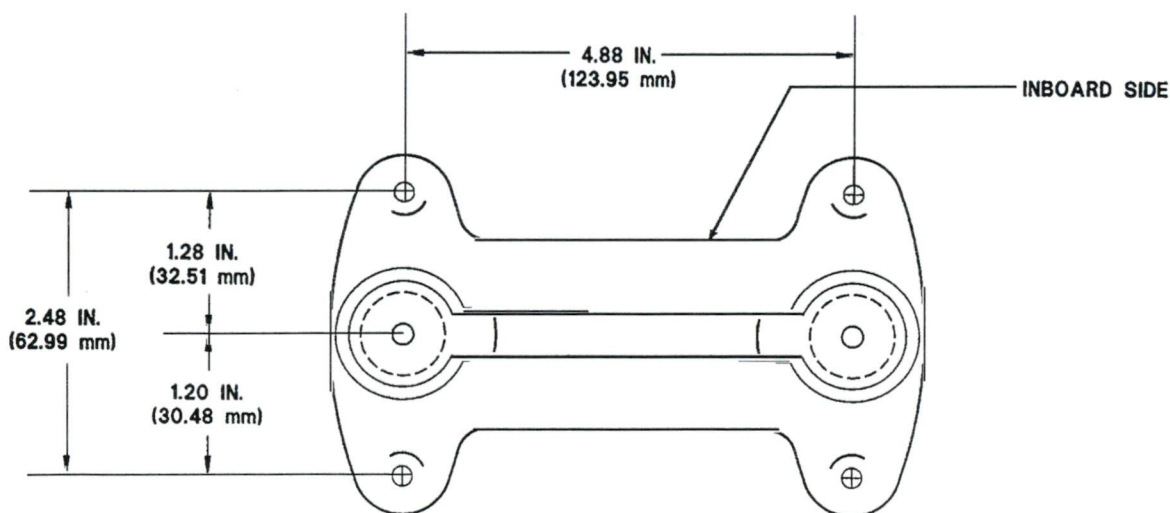
OUTSIDE DIAMETER OF THE CROSSTUBE ASSEMBLIES (4 AND 5, FIGURE 32-3) IS SLIGHTLY LARGER AT THE FUSELAGE ATTACHMENT POINTS. 140-009C16S48 SPECIAL SPACING WASHERS (51) ARE REQUIRED BETWEEN THE RETAINING STRAP ASSEMBLIES (46 AND 49) AND FUSELAGE. INSTALL WASHERS WITH WET EPOXY POLYAMIDE PRIMER (C-204).

LONGER ATTACHMENT BOLTS (48 AND 50) MAY BE NEEDED.

#### NOTE

206-030-104 (figure 32-10) fitting shall be installed with web portion offset outboard to provide adequate clearance for crosstube supports (refer to Information Letter 206-96-74).

1. Position landing gear under fuselage attachment points and align strap assemblies (7, figure 32-3) with fuselage. Lower helicopter onto crosstube assemblies (4 and 5).
2. Install two forward strap assemblies (46), with washers (51), washers (47), and bolts (48). Tighten bolts.
3. Install two aft strap assemblies (49), with washers (51), washers (47), and bolts (50). Tighten bolts.
4. Inspect landing gear installation for security and remove hoisting (lifting) equipment.
5. Install crosstube fairing (if required) (paragraph 32-18).



#### NOTES

1. Fitting is not symmetrical.
2. Install such that 1.28 in. (32.51 mm) dimension is inboard.

206A/BS-M-32-10

Figure 32-10. 206-030-104 Fitting assembly

20 August 1996

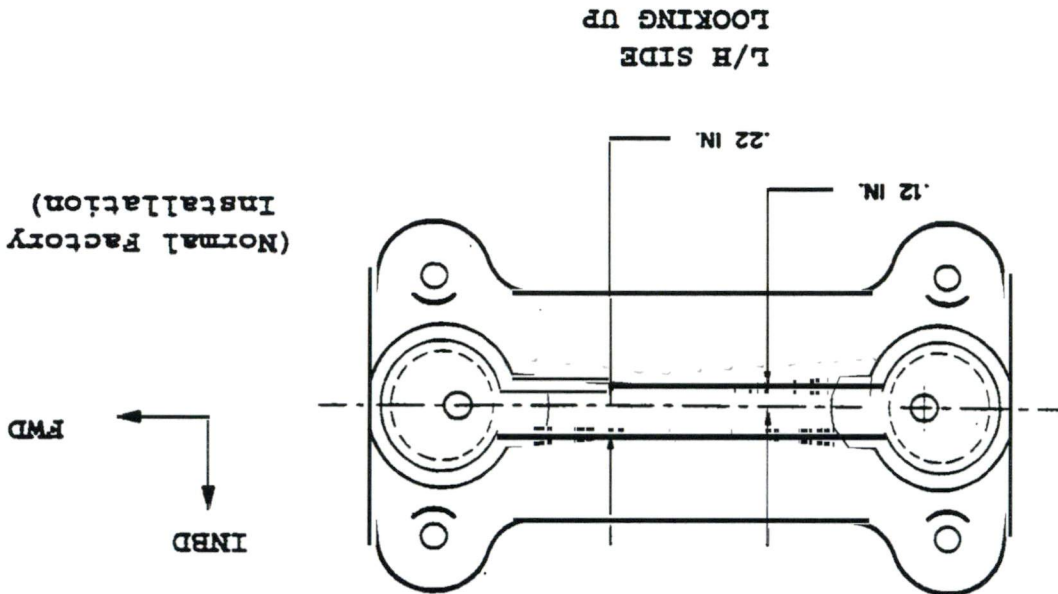
Information Letter 206-96-74  
Information Letter 206L-96-58

To: ALL BELL 206 SERIES HELICOPTER OWNERS AND OPERATORS

Subject: FUSELAGE FITTINGS P/N 206-030-104-ALL DASH NUMBERS

Several field reports indicate that interference is encountered between the raised portions of crossstub supports P/N 206-053-200 and the inboard face of the web on fuselage fitting P/N 206-030-104.

The web portion of the fitting is designed to be offset 0.10 inch in relation to its longitudinal centerline. Positioning the fitting with the web offset to outboard will provide adequate clearance for the crossstub supports. Therefore, if not already done, rotate fitting 180 degrees to attain desired clearance.





**AERO DESIGN LTD.**

2013 – 39 Avenue N.E., Calgary, Alberta, T2E 6R7

Tel: 403-250-8027

Fax: 403-250-8333

www.aerodesign.ca

**FAXED**  
JAN 13/09

12 January 2009

Transport Canada  
Aircraft Certification Division  
11<sup>th</sup> Floor, Canada Place  
9700 Jasper Avenue  
Edmonton, Alberta  
T5J 4E6

Attn: Jack Staal

Your File : C-09-0006

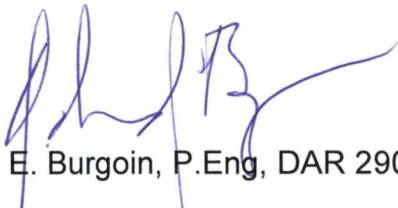
Our File : 803

Re: Bell 206B Quick Release Cargo Basket

Jack,

Please extend my delegation to include CAR 6.247 - Skid Gear Ground Loading condition, included on CP803, Rev. 1, emailed on 06 January 2009.

Regards,



E. Burgoin, P.Eng, DAR 290M

Encl.

Bell 206B, CAR 6:

CAR 6.620(c)

Ultimate Upward Emergency Landing Load Factor:	$n_{e\_up} := 1.5$
Ultimate Forward Emergency Landing Load Factor:	$n_{e\_fwd} := 4.0$
Ultimate Sideward Emergency Landing Load Factor:	$n_{e\_side} := 2.0$
Ultimate Downward Emergency Landing Load Factor:	$n_{e\_down} := 4.0$

CAR 6.307(d)

Fitting Factor (does not apply to articles being tested):  $n_{ff} := 1.15$

CAR 6.200

Safety Factor:  $n_{sf} := 1.5$

CAR 6.212

	Limit Positive Maneuvering Load Factor:	$n_{man} := 3.5$
$n_{man\_ult} := n_{man} \cdot n_{sf}$	Ultimate Positive Maneuvering Load Factor:	$n_{man\_ult} = 5.25$
	Limit Negative Maneuvering Load Factor:	$n_{man\_neg} := -1.0$
$n_{man\_neg\_u} := n_{man\_neg} \cdot n_{sf}$	Ultimate Negative Maneuvering Load Factor:	$n_{man\_neg\_u} = -1.5$

#### CRITICAL ULTIMATE LOAD FACTORS:

Downward:	Ultimate Positive Maneuvering Load Factor:	$n_{man\_ult} = 5.25$
Forward:	Ultimate Forward Emergency Landing Load Factor:	$n_{e\_fwd} = 4$
Sideward:	Ultimate Sideward Emergency Landing Load Factor:	$n_{e\_side} = 2$
Upward:	Ultimate Upward Emergency Landing Load Factor:	$n_{e\_up} = 1.5$

Note: The basket is mounted below and to one side of the cabin. Forward deflection or failure in the emergency landing condition does not endanger the occupants. Likewise, Sideward and Upward deflection or failure of the basket in the emergency landing condition do not endanger the occupants.

Sideward and Upward Load Factors are used in the tests to ensure that the lid of the basket does not open in flight.

### Quick Release Cargo Basket (long)

$$W_{\text{basket}} := 50 \cdot \text{lbf}$$

Weight of cargo basket 81110 (84" long)

$$W_{\text{cargo}} := 200 \cdot \text{lbf}$$

Weight of cargo (max)

$$W_{\text{beam}} := 10 \cdot \text{lbf}$$

Weight of mounting beam (each)

$$P_{\text{basket}} := W_{\text{basket}} + W_{\text{cargo}} + 2 \cdot W_{\text{beam}}$$

$$P_{\text{basket}} = 270 \text{ lbf}$$

Combined weight of basket and cargo

$$P_{\text{lim\_man}} := P_{\text{basket}} \cdot n_{\text{man}}$$

$$P_{\text{lim\_man}} = 945 \text{ lbf}$$

Limit maneuvering load

950 lb load + 190 drag.

$$P_{\text{ult\_man}} := P_{\text{basket}} \cdot n_{\text{man\_ult}}$$

$$P_{\text{ult\_man}} = 1417.5 \text{ lbf}$$

Ultimate maneuvering load

1400 lb load + basket/beams  
+ 300 drag.

$$P_{\text{lim\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg}}$$

$$P_{\text{lim\_cargo\_neg}} = -200 \text{ lbf}$$

Limit negative maneuvering load due to cargo

28 7/8 @ no load.

$$P_{\text{ult\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg\_u}}$$

$$P_{\text{ult\_cargo\_neg}} = -300 \text{ lbf}$$

Ultimate negative maneuvering load due to cargo

max load 25 1/8 @ full end  
300 lbs drag.

### Quick Release Cargo Basket (medium)

$$W_{\text{basket}} := 45 \cdot \text{lbf}$$

Weight of cargo basket 80310 (72" long)

$$W_{\text{cargo}} := 200 \cdot \text{lbf}$$

Weight of cargo (max)

$$W_{\text{beam}} := 10 \cdot \text{lbf}$$

Weight of mounting beam (each)

$$P_{\text{basket}} := W_{\text{basket}} + W_{\text{cargo}} + 2 \cdot W_{\text{beam}}$$

$$P_{\text{basket}} = 265 \text{ lbf}$$

Combined weight of basket and cargo

$$P_{\text{lim\_man}} := P_{\text{basket}} \cdot n_{\text{man}}$$

$$P_{\text{lim\_man}} = 927.5 \text{ lbf}$$

Limit maneuvering load

950 lb + 190 drag.

$$P_{\text{ult\_man}} := P_{\text{basket}} \cdot n_{\text{man\_ult}}$$

$$P_{\text{ult\_man}} = 1391.3 \text{ lbf}$$

Ultimate maneuvering load

1400 + 300 drag.

$$P_{\text{lim\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg}}$$

$$P_{\text{lim\_cargo\_neg}} = -200 \text{ lbf}$$

Limit negative maneuvering load due to cargo

25" @ full load.

$$P_{\text{ult\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg\_u}}$$

$$P_{\text{ult\_cargo\_neg}} = -300 \text{ lbf}$$

Ultimate negative maneuvering load due to cargo



### Quick Release Cargo Basket (short)

$$W_{\text{basket}} := 35 \cdot \text{lbf}$$

Weight of cargo basket 80310 (72" long)

$$W_{\text{cargo}} := 200 \cdot \text{lbf}$$

Weight of cargo (max)

$$W_{\text{beam}} := 10 \cdot \text{lbf}$$

Weight of mounting beam (each)

28" no load.

$$P_{\text{basket}} := W_{\text{basket}} + W_{\text{cargo}} + 2 \cdot W_{\text{beam}}$$

$$P_{\text{basket}} = 255 \text{ lbf}$$

Combined weight of basket and cargo

$$P_{\text{lim\_man}} := P_{\text{basket}} \cdot n_{\text{man}}$$

$$P_{\text{lim\_man}} = 892.5 \text{ lbf}$$

Limit maneuvering load

9.50 + 180 drag.

$$P_{\text{ult\_man}} := P_{\text{basket}} \cdot n_{\text{man\_ult}}$$

$$P_{\text{ult\_man}} = 1338.8 \text{ lbf}$$

Ultimate maneuvering load

$$P_{\text{lim\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg}}$$

$$P_{\text{lim\_cargo\_neg}} = -200 \text{ lbf}$$

Limit negative maneuvering load due to cargo

1400 + <sup>300</sup>~~200~~ drag.

$$P_{\text{ult\_cargo\_neg}} := W_{\text{cargo}} \cdot n_{\text{man\_neg\_u}}$$

$$P_{\text{ult\_cargo\_neg}} = -300 \text{ lbf}$$

Ultimate negative maneuvering load due to cargo

24 5/8 full load

## DRAG LOAD ON BASKET (long basket)

$$l_{\text{basket}} := 84 \cdot \text{in}$$

Length of basket.

$$w_{\text{basket}} := 22.5 \cdot \text{in}$$

Width of basket.

$$h_{\text{basket}} := 19.25 \cdot \text{in}$$

Height of basket.

$$A_f := 333 \cdot \text{in}^2$$

Frontal Area of basket.

$$A_p := l_{\text{basket}} \cdot w_{\text{basket}}$$

$$A_p = 1890 \text{ in}^2$$

Planar Area of basket.

$$\frac{l_{\text{basket}}}{w_{\text{basket}}} = 3.7$$

Fineness ratio of basket

$$C_{D0} := 1.1$$

Drag Coefficient of Basket, (overestimated)  
(Ref. Hoerner, Fluid Dynamic Drag, Figure 22).

$$\rho := 0.002378 \cdot \frac{\text{slug}}{\text{ft}^3}$$

Density of air at Sea Level.

$$V_{\text{ne}} := 150 \cdot \text{mph}$$

Never-Exceed-Speed of Bell 206B.  
(Ref. Flight Manual)

$$V_d := \frac{V_{\text{ne}}}{0.9}$$

$$V_d = 167 \text{ mph}$$

Design Dive Speed of bell 206B

$$P_{\text{drag}} := \frac{\rho}{2} \cdot V_d^2 \cdot A_f C_{D0}$$

$$P_{\text{drag}} = 181 \text{ lbf}$$

Limt Drag on basket.

$$P_{\text{drag\_ult}} := P_{\text{drag}} \cdot n_{\text{sf}}$$

$$P_{\text{drag\_ult}} = 271 \text{ lbf}$$

Ultimate Drag load on basket



Transport  
Canada

Transports  
Canada

# APPLICATION FOR A FLIGHT PERMIT

# DEMANDE DE PERMIS DE VOL

## INSTRUCTIONS

Print or type all entries. Reference Canadian Aviation Regulations Standard 507 for the use and disposition of the form.

Dactylographier ou écrire en lettres moulées. Consultez Règlement de l'aviation canadien norme 507 du Manuel de navigabilité qui précise la façon de remplir et d'acheminer le présent formulaire.

## A. AIRCRAFT IDENTIFICATION - IDENTIFICATION DE L'AÉRONEF

1. Owner - Propriétaire <b>Kananaskis Mountain Helicopters</b>	3. Aircraft Manufacturer - Constructeur de l'aéronef <b>Bell</b>	4a. Model - Modèle <b>206B</b>
2. Address - Adresse <b>Box 2, Site 7, RR2 Rocky Mountain House, AB T4T 2A2</b>	4b. Maximum Permissible Take-Off Weight Masse maximale admissible au décollage <b>1451.5</b> Kg <b>lb</b>	
	5. Serial Number - Numéro de série <b>2070</b>	6. Nationality and Registration Marks Marques de nationalité et d'immatriculation <b>C-GABE</b>

## B. PURPOSE OF FLIGHT PERMIT (Check applicable boxes) - OBJECTIF DU PERMIS DE VOL (Cocher la ou les case(s) voulue(s))

1. ☐ Ferry flights to a base for repairs or maintenance  
Un vol de convoyage vers une base en vue de réparation ou de maintenance
2. ☐ Delivery, demonstration, market survey, or crew training flights  
Un vol de livraison, de démonstration, d'étude de marché ou d'entraînement d'équipage
3. ☒ Flights for the purpose of showing compliance with airworthiness standards  
Un vol de démonstration de conformité aux normes de navigabilité
4. ☐ Other purpose (Specify)  
Autre fin (Préciser)

## C. FLIGHT DESCRIPTION AND AIRCRAFT LIMITATIONS

Description of Flight(s) Use attachment when appropriate

## DESCRIPTION DU VOL ET LIMITATIONS DE L'AÉRONEF

Description du ou des vol(s) Joindre une feuille au besoin

1. From - Aéroport de départ <b>Springbank (YBW)</b>	2. To - Aéroport de destination <b>Springbank (YBW)</b>
3. Via - Escales	4. Effective date (yyyy - mm - dd) Date effective (aaaa - mm - jj) <b>2009-01-05</b>
	5. Termination date (aaaa - mm - dd) Date limite (aaaa - mm - jj) <b>2009-02-05</b>

6. Aircraft does not meet the applicable airworthiness requirements as follows:

Raisons pour lesquelles l'aéronef ne satisfait pas aux exigences de navigabilité en vigueur :

Installation of AERO Design Ltd. Quick Release Mounting Provisions and Cargo Basket in accordance with installation drawings 49702, 49703, 80201, 80301, 81101. Flights in accordance with FTP811.03, and any additional conditions required by Transport Canada Flight Test Division. Flight to 1.11 Vne is required.

7. The following maintenance conditions are considered necessary for safe operation:

Les conditions d'entretien suivantes sont nécessaires pour la conduite des vols en toute sécurité :

8. The following operating conditions are considered necessary for safe operation:

Les conditions d'exploitation suivantes sont nécessaires pour la conduite des vols en toute sécurité :

No flight over built up areas

Essential crew only

Day VFR conditions

## D. SIGNATURES

I hereby certify that the aircraft described above is in a condition for safe operation.

Je, soussigné, certifie que l'aéronef décrit ci-dessus est en bon état de vol.

Signature, AME Licence No., ACA No. or RCA No.

Signature, N° de licence de TEA, N° d'autorisation ou N° d'autorisation restreinte and - et

Signature of the Registered Owner or Authorized Representative

Signature du propriétaire enregistré ou du représentant autorisé

07 January 2009

Date (yyyy - mm - dd)  
Date (aaaa - mm - jj)

07 January 2009

Date (yyyy - mm - dd)  
Date (aaaa - mm - jj)



**AERO DESIGN LTD.**

2013 – 39<sup>th</sup> Ave N. E., Calgary, Alberta, T2E 6R7

www.aerodesign.ca

**F A X C O V E R S H E E T**

DATE: January 7, 2009

TIME: 1:31 PM

TO: **Darryl**

PHONE: 780-293-1212

FAX: 780-458-3336

FROM: J. Clarke  
Aero Design Ltd.

PHONE: 403-250-8027

FAX: 403-250-8333

Number of pages including cover sheet: 2


**RE: FLIGHT PERMIT APPLICATION**

---

Darryl,

Please sign and fax back.

Thank you.



Jeff



Transport  
Canada

Transports  
Canada

## APPLICATION FOR A FLIGHT PERMIT

## DEMANDE DE PERMIS DE VOL

### INSTRUCTIONS

Print or type all entries. Reference *Canadian Aviation Regulations Standard 507* for the use and disposition of the form.

Dactylographier ou écrire en lettres moulées. Consultez Règlement de l'aviation canadien norme 507 du Manuel de navigabilité qui précise la façon de remplir et d'acheminer le présent formulaire.

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2. Address - Adresse <b>Box 2, Site 7, RR2 Rocky Mountain House, AB T4T 2A2</b>	4b. Maximum Permissible Take-Off Weight Masse maximale admissible au décollage ▶ <b>1451.5</b> Kg _____ lb	6. Nationality and Registration Marks Marques de nationalité et d'immatriculation <b>C-GABE</b>
	5. Serial Number - Numéro de série <b>2070</b>	

### B. PURPOSE OF FLIGHT PERMIT (Check applicable boxes) - OBJECTIF DU PERMIS DE VOL (Cocher la ou les case(s) voulue(s))

- ☐ Ferry flights to a base for repairs or maintenance  
Un vol de convoyage vers une base en vue de réparation ou de maintenance
- ☐ Delivery, demonstration, market survey, or crew training flights  
Un vol de livraison, de démonstration, d'étude de marché ou d'entraînement d'équipage
- ☒ Flights for the purpose of showing compliance with airworthiness standards  
Un vol de démonstration de conformité aux normes de navigabilité
- ☐ Other purpose (Specify)  
Autre fin (Préciser)

### C. FLIGHT DESCRIPTION AND AIRCRAFT LIMITATIONS

Description of Flight(s) Use attachment when appropriate

### DESCRIPTION DU VOL ET LIMITATIONS DE L'AÉRONEF

Description du ou des vol(s) Joindre une feuille au besoin

1. From - Aéroport de départ <b>Springbank (YBW)</b>	2. To - Aéroport de destination <b>Springbank (YBW)</b>	
3. Via - Escales	4. Effective date (yyyy - mm - dd) Date effective (aaaa - mm - jj) <b>2009-01-05</b>	5. Termination date (aaaa - mm - dd) Date limite (aaaa - mm - jj) <b>2009-02-05</b>

6. Aircraft does not meet the applicable airworthiness requirements as follows:

Raisons pour lesquelles l'aéronef ne satisfait pas aux exigences de navigabilité en vigueur :

**Installation of AERO Design Ltd. Quick Release Mounting Provisions and Cargo Basket in accordance with installation drawings 49702, 49703, 80201, 80301, 81101. Flights in accordance with FTP811.03, and any additional conditions required by Transport Canada Flight Test Division. Flight to 1.11 Vne is required.**

7. The following maintenance conditions are considered necessary for safe operation:

Les conditions d'entretien suivantes sont nécessaires pour la conduite des vols en toute sécurité :

8. The following operating conditions are considered necessary for safe operation:

Les conditions d'exploitation suivantes sont nécessaires pour la conduite des vols en toute sécurité :

**No flight over built up areas  
Essential crew only  
Day VFR conditions**

### D. SIGNATURES

I hereby certify that the aircraft described above is in a condition for safe operation.

Je, soussigné, certifie que l'aéronef décrit ci-dessus est en bon état de vol.

\_\_\_\_\_  
Signature, AME Licence No., ACA No. or RCA No.  
Signature, N° de licence de TEA, N° d'autorisation ou N° d'autorisation restreinte  
and - et

\_\_\_\_\_  
Date (yyyy - mm - dd)  
Date (aaaa - mm - jj)

\_\_\_\_\_  
Signature of the Registered Owner or Authorized Representative  
Signature du propriétaire enregistré ou du représentant autorisé

\_\_\_\_\_  
Date (yyyy - mm - dd)  
Date (aaaa - mm - jj)

## **Ted Burgoin**

---

**From:** "Ralph Sliger" <icefieldheli@gmail.com>  
**To:** "Ted Burgoin" <ted@aerodesign.ca>  
**Sent:** Thursday, December 18, 2008 11:32 AM  
**Subject:** Kananaskis Mountain Helicopters - Basket

Hi Ted,

Please sign on our behalf for the flight permit for a basket installation and flight testing on an LSTC and later an STC flight with Transport Canada.

Regards,

Ralph Sliger  
President/Operations Manager, Chief Pilot  
Icefield Helicopter Tours - Sightseeing, Hiking, Yoga, Weddings and Fishing  
Kananaskis Heli Tour - Sightseeing  
Kananaskis Mountain Helicopters Ltd - Charters, Medivac and Forest Fires  
Heli Productions - Film, Movies, Commercials and Documentaries

[ralph@icefieldheli.com](mailto:ralph@icefieldheli.com)

[www.icefieldheli.com](http://www.icefieldheli.com)

[www.heliproductions.com](http://www.heliproductions.com)

Cline River Heliport Phone: 403-721-2100

Cline River Heliport Fax: 403-721-3779

Administration: 403-844-4443 & Fax 403-844-4499

Toll Free: 1-888-844-3514 (Canada and North America only.)

Kananaskis Heliport Phone: 403-591-0200

Kananaskis Heliport Fax: 403-591-0110

Kananaskis Toll Free: 1-877-591-0220

"The Rockies MUST DO Sightseeing Experience since 1999"

Awards:

2003 Alberta Tourism Award - ALTO AWARD

Stampede Web Package

- Marketing Partnership

2005 La Chambre Economic de L'Alberta

- Prix Tourism

2005 Lauriers de la PME

- Finalist

P Please consider the environment before printing this email



Item	Weight	Long	Moment	Lateral	Moment
Empty Weight	1937.43	114.65	222126.3	0.26	503.7318
Less: Cargo Hook	-22.7	110.3	-2503.81	0	0
Add: Snow deflectors	1	105.7	105.7	0	0
Less: RH Flight Step	-9.5	98.5	-935.75	35.5	-337.25
Add: RH Pilot Fixed step	2.1	63.27	132.867	23	48.3
Pilot (right seat)	180	65	11700	14	2520
Co-Pilot (left seat)	190	65	12350	-11	-2090
Fuel (Full fuel is 658 lb.)	500	116	58000	0	0
Oil	12.3	179	2201.7	0	0
Basket Installation					0
Provisions - fittings	5.3	79.7	422.41	0	0
Provisions - support beams			0		0
Forward beam	11.5	76.4	878.6	12.7	146.05
Aft beam	10.5	129.1	1355.55	13.6	142.8
Basket	50	105.9	5295	42.4	2120
Cargo Load	75	85	6375	42.4	3180
			0		0
Ballast			0		0
			0		0
			0		0
			0		0
			0		0
			0		0
			0		0
			0		0
			0		0
			0		0
Total	2942.93		317503.6		6233.632
C of G		107.8869		2.118172	

START

51

71 GAR

ON GAUGE-

$$\begin{array}{r} 16 \\ \hline 60 \end{array}$$

35

$$\begin{array}{r} 16 \\ 7 \\ \hline 112 \end{array} \quad \text{lb/hr.}$$

Bell 206B RH Side Instr  
Provisions ONLY Ballast for right side instr  
BASELINE FLIGHT

Item	Weight	Long	Moment	Lateral	Moment
Empty Weight	1937.43	114.65	222126.3495	0.26	503.7318
Less: Cargo Hook	-22.7	110.3	-2503.81	0	0
Add: Snow deflectors	1	105.7	105.7	0	0
Less: RH Flight Step	-9.5	98.5	-935.75	35.5	-337.25
Add: RH Pilot Fixed step	2.1	63.27	132.867	23	48.3
Pilot (right seat)	180	65	11700	14	2520
Co-Pilot (left seat)	190	65	12350	-11	-2090
Fuel	385	116	44660	0	0
(Full fuel is 658 lb.)					
Oil	12.3	179	2201.7	0	0
					0
Basket Installation					0
Provisions - fittings	5.3	79.7	422.41	0	0
Provisions - support beams			0		0
Forward beam	11.5	76.4	878.6	12.7	146.05
Aft beam	10.5	129.1	1355.55	13.6	142.8
Basket	<del>50</del>	105.9	5295	42.4	2120
Cargo Load		105.9	0	42.4	0
			0		0
Ballast	175	104	18200	19	3325
			0		0
			0		0
			0		0
			0		0
			0		0
			0		0
			0		0
			0		0
			0		0
			0		0
			0		0
Total	2927.93		315988.6165		6378.632
C of G		107.9222		2.178547	

VP 2:15

## WEIGHT &amp; BALANCE AMENDMENT



A/C REG.	A/C S/N	MODEL	CONFIGURATION	DATE	AMENDMENT		
C-GABE	2070	206B	High Skid Gear, Particle Separator	21-Apr-08	14		
** IMPERIAL system **							
EMPTY WEIGHT CONFIGURATION			WEIGHT	LONGITUDINAL		LATERAL	
				ARM	MOMENT	ARM	MOMENT
Data from amendment # 13			1937.43	114.65	222132.31	0.26	510.46
REMOVE:							
Dual controls			-6.50	60.98	-396.37	-15.07	97.96
Cargo hook			-22.70	110.30	-2503.81	0.00	0.00
Empty Weight			1908.23	114.89	219232.13	0.32	608.42
ADD:							
Snow deflectors			1.00	105.70	105.70	0.00	0.00
AMENDED EMPTY WEIGHT			1909.23	114.88	219337.83	0.32	608.42

The maintenance described above has been performed in accordance with the applicable

EAGLE COPTERS MAINTENANCE LTD.

AMO 6-81

Date: 21-Apr-08

Inspector:

*B. J.*

ACA:

Eagle  
6-81 55



# WEIGHT & BALANCE REPORT



A/C REG.	A/C S/N	MODEL	CONFIGURATION	DATE	REPORT No.
C-GABE	2070	206B	SKID	15-Mar-02	0

**\*\*A/C WEIGHED WITH 25.0 LBS AT STATION 13 \*\***

Longitudinal C.G. as weighed \_\_\_\_\_ =  $\frac{225121.4}{1971.0}$  = 114.22

Lateral C.G. as weighed \_\_\_\_\_ =  $\frac{684.4}{1971.0}$  = 0.35

Note: Lateral Calculation [ - left ] [ + right ]

EMPTY WEIGHT CONFIGURATION	WEIGHT	LONGITUDINAL		LATERAL	
		ARM	MOMENT	ARM	MOMENT
<b>AS WEIGHED</b>	1971.0	114.217	225121.4	0.347	684.4
REMOVE:					
Engine Oil	-12.3	179	-2201.7	0.0	0
ADD:					
Undrainable Oil	1	167	167	0.0	0
Unusable Fuel	6.7	120	804	0.0	0
Ballast	-25	13	-325	0	0
Ballast	0	0	0	0	0
<b>WEIGHT EMPTY</b>	1941.4	115.16	223565.7	0.35	684.4

<b>MOST FWD. C.G. - WEIGHT EMPTY</b>	1941.4	115.16	223565.74	0.35	684.4
+ Pilot	170.0	65.00	11050.00	14.00	2380
+ Copilot	170.0	65.00	11050.00	-11.00	-1870
+ Passenger Rear	510.0	104.00	53040.00	0.00	0
+ Oil	12.3	179.00	2201.70	0.00	0
+ Fuel	0.0	0.00	0.00	0.00	0
<b>TOTAL</b>	2803.70	107.33	300907.44	0.43	1194.4

<b>MOST AFT C.G. WEIGHT EMPTY</b>	1941.4	115.16	223565.74	0.35	684.4
+ Pilot	170.0	65.00	11050.00	14.00	2380
+ Oil	12.3	179.00	2201.7	0.00	0.0
+ Fuel	494.0	116.00	57304.0	0.00	0.0
<b>TOTAL</b>	2617.7	112.36	294121.4	1.17	3064.4



Transport  
Canada  
Aviation

Transports  
Canada  
Aviation

**Transport Canada Centre  
The Airport Corporate Centre  
800, 1601 Airport Road NE  
Calgary, Alberta  
T2E 6Z8**

**RACH 5008-GABE  
Tel: (403) 292-5019  
Fax: (403) 292-6709**

**2008-12-19**

**Kananaskis Mountain helicopters  
Box 2, Site 7, RR2  
Rocky Mountain House, AB  
T4T 2A2**

**THIS CONSTITUTES A FLIGHT PERMIT (SPECIFIC PURPOSE) FOR AIRCRAFT:**

NATIONALITY AND REGISTRATION MARKS MARQUES DE NATIONALITÉ ET D'IMMATRICULATION	MANUFACTURER AND MODEL CONSTRUCTEUR ET MODÈLE	SERIAL NUMBER NUMÉRO DE SÉRIE
C-GABE	Bell 206B	2070

**THIS FLIGHT PERMIT IS SUBJECT TO THE FOLLOWING OPERATING LIMITATIONS:**

1. Valid for **30 days** or the completion of intended test flight(s) in accordance with Aero Design Ltd. Flight Test Plan FTP811.03 from Calgary International Airport (YYC) with technical landings as required;
2. Essential flight crew members only - No Passengers;
3. The aircraft shall be certified as safe and fit for the proposed flight by a qualified Aircraft Maintenance Engineer (AME) or other such authorized person, in the aircraft journey log book prior to the commencement of the flight;
4. Commercial use prohibited;
5. Ensure that all applicable airworthiness directives have been complied with;
6. Ensure that no airworthiness limitations are exceeded;
7. Permission of the foreign aviation authority required prior to flight in their airspace;
8. This document shall be carried on board the aircraft.

DATE: 2008-12-19

SIGNATURE: Mel Turgeon

For the Minister of Transport - Pour le ministre des Transports

**Canada**

**Jeff Clarke**

---

**From:** Oucharek, Greg [greg.oucharek@tc.gc.ca]  
**Sent:** January 6, 2009 11:41 AM  
**To:** Jeff Clarke  
**Cc:** Staal, Jack; Turgeon, Mel  
**Subject:** RE: Bell 206B Cargo Basket Flight Test

Jeff,

FTP811.03, Rev 1 is acceptable with the revised Vne. Acceptance is based on prior coordination with flight test for the attempted LSTC but it is understood that this FTP is to support your STC application where TC Flight Test will be conducting the flight. Additionally, it is expected that the requirements of SI 513-008, section 10.1 are in place prior to the flight test. Please continue to coordinate these items with Jack in support of your STC.

A revised flight authority will be required due to the venue change (Springbank) which should be coordinated with Mel. The flight authority will make reference to the following additional limitations:

- Reference to TCCA accepted Flight Test Plan FTP811.03
- Flight to 1.11Vne is authorized
- Flight limited to Day VFR

Regards,

Greg

-----Original Message-----

**From:** Jeff Clarke [mailto:jeff@aerodesign.ca]  
**Sent:** Tuesday, January 06, 2009 11:22 AM  
**To:** Oucharek, Greg  
**Subject:** Bell 206B Cargo Basket Flight Test

Greg,

Please find attached the revised flight test plan for the Bell 206B cargo basket flight test. Note that the Vne has been changed to match the flight manual limitations. Please ensure flight to 1.11 Vne is included on the flight permit, and the location of the test is now Springbank (not Calgary).

Regards,

Jeff Clarke

AERO Design Ltd.

13/01/2009



**AERO Design Ltd.**

**FLIGHT TEST PLAN**

**FTP811.03**

---

**BELL 206B**

**QUICK RELEASE CARGO BASKET**

Prepared by: J. Clarke, CET

Approved by: E. Burgoin, P.Eng., DAR 290M

Revision 1, 6 January 2009

---

AERO Design Ltd.  
*Engineering Consultants*

2013 – 39<sup>th</sup> Avenue N.E., Calgary, Alberta T2E 6R7

Phone: (403) 250-8027

Fax: (403) 250-8333

E-Mail: [info@aerodesign.ca](mailto:info@aerodesign.ca)

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## **1.0 INTRODUCTION**

The Quick Release Cargo Basket is mounted on the right side of the helicopter. The basket is made from steel tubing and expanded steel mesh. It is quickly detachable from the mounting beams that support it. The beams fasten to replacement saddle fittings in the front, and replacement strap fittings in the back.

## **2.0 REFERENCE TEXT**

AERO Design Ltd. Installation Drawings 49701, 49702, 80201, 80301, 81101  
AERO Design Ltd. Flight Manual Supplement FMS811.91  
Bell 206B Rotorcraft Flight Manual.

## **3.0 FLIGHT TEST OBJECTIVE**

Flight testing of the Quick Release Cargo Baskets is meant to demonstrate that the installation does not produce undesirable flutter or vibrations, and to determine the effect on performance characteristics of the helicopter.



## **4.0 TEST PREPARATION**

### **4.1 Instrument Calibration**

The maintenance records of the test helicopter will be checked to ensure the airspeed indicator has been calibrated within the specified time period.

### **4.2 Equipment**

The helicopter will be fitted with the External Attachment Provisions in accordance with drawing 49701, and Quick Release Mounting Provisions in accordance with drawing 49702. The Quick Release Cargo Basket installation will be fitted to the mounting provisions in accordance with drawing 80201, 80301, or 81101 as applicable.

### **4.3 Flight Test Crew**

Two crew members will be required for the test:

- 1) Pilot with training and experience appropriate to the task of testing this equipment.
- 2) Test observer, DAR, beside the pilot.

All members of the crew will be equipped to communicate via intercom.

Seating arrangement of the observer(s) may be limited by loading requirements.

### **4.4 Documents**

These test flights require a FLIGHT PERMIT issued by Transport Canada.

The draft Flight Manual Supplement shall be on board the aircraft.

The Pilot will familiarize himself with the contents of this Test Plan and the Flight Manual Supplement prior to flight.

### **4.5 Weight and Balance**

The helicopter will be loaded with sufficient fuel and ballast to produce the following conditions for flight:

- A) GW and CG within limits specified in basic flight manual,
- B) Same GW and CG as in A), with Short Cargo Basket Installed (80201)
- C) Same GW and CG as in A), with Medium Cargo Basket Installed (80301)
- D) Same GW and CG as in A), with Long Cargo Basket Installed (81101)

Loading information specific to the Quick Release Cargo Basket is contained in the Flight Manual Supplement, FMS803.91.

## 5.0 FLIGHT TESTS

One flight is required for each of the conditions listed in 4.5 above.

### 1. Hover and Low Speed Controllability

Establish hover, fly to the right to 20 KIAS, re-establish hover, fly to the left up to 20 KIAS, re-establish hover, fly aft to 20 kts. Verify that adequate control margins exist. Record any observations.

### 2. Flight to $V_H$

Establish forward flight and accelerate to maximum level flight airspeed at MCP ( $V_H$ ). Record the longitudinal cyclic position.

### 3. Flight to $V_{NE}$

Accelerate to  $V_{NE}$  as determined below. Dive as required to attain  $V_{NE}$ . Record the longitudinal cyclic position. Perform 30° AOB turn to the right, recover, perform 30° AOB turn to the left. Ensure adequate control margins exist.

3000 lbs gross weight or less:

$V_{NE} = 150$  mph (130 kts), decrease by 4 mph (3 kts) per 1000 feet above 3000 feet

Over 3000 lbs gross weight:

$V_{NE} = 150$  mph (130 kts), decrease by 8 mph (7 kts) per 1000 feet above 3000 feet

### 4. Flight to $V_D$

Accelerate to  $V_D$  as determined below. Maneuver carefully at  $V_D$ . Observe for any unusual vibrations.

$$V_D = 1.11 \times V_{NE}$$

$$V_D = 1.11 \times 150 \text{ mph} = 166.5 \text{ mph (145 kts) at sea level, below 3000 lbs gross weight}$$

### 5. Climb Performance

The climbs are performed perpendicular to prevailing winds to minimize the effects of wind shear. The aircraft is stabilized at  $V_Y$  and MCP power, once the climb rate has stabilized the crew starts the stopwatch and records the start altitude. The climb is continued, with the pilot adjusting collective to maintain MCP for one minute of elapsed time. The crew records the altitude at the 30 second and 60 second elapsed times. The aircraft weight for the performance climbs should be the same for the modified and unmodified configurations to allow meaningful comparisons to be made.

## 6.0 RECORDING OF RESULTS

Record results on flight test cards and attach as an appendix.

**AERO DESIGN LTD.**

2013 – 39 Avenue N.E., Calgary, Alberta, T2E 6R7

Tel: 403-250-8027

Fax: 403-250-8333

www.aerodesign.ca

6 January 2009

Transport Canada  
Aircraft Certification Division  
11<sup>th</sup> Floor, Canada Place  
9700 Jasper Avenue  
Edmonton, Alberta  
T5J 4E6

**FAXED**  
6 JAN 2009  
9:00 AM

Attn: Jack Staal

Your File : C-09-0006

Our File : 803

Re: Bell 206B Quick Release Cargo Basket

Jack,

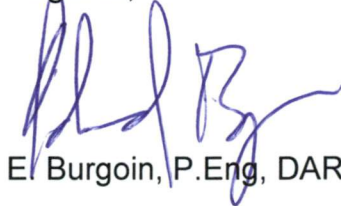
Please find attached the following documents related to this project:

Modification Approval Request Application Form  
Compliance Program  
Project Summary

MOD803  
CP803  
PS803

Rev. 0  
Rev. 0  
Rev. 0

Regards,



Et Burgoin, P.Eng, DAR 290M

Encl.



**Title:** Quick Release Cargo Basket Installation  
**Approval:** STC  
**Manufacture:** Mfd by Aero Design (amend Approved Product List)  
**Customer:**  
**Type and Model:** Bell 206B

**Definition Of Change:****Description:**

Installation of External Attachment Provisions. The attachment provisions are incorporated into new fittings for attaching the landing gear. The forward fitting is replaced with a fitting very similar to the part approved on the Bell 206L/407. The aft strap holding the landing gear cross tube is replaced with a fitting, similar to the Bell fitting used for attachment of a cargo hook configuration.

Installation of Quick Release Mounting Provisions. Beams are installed on the External Attachment Provisions. The beams consist of stainless steel tube running laterally, sticking out from the side of the helicopter. A down tube with keyways for attaching the basket is located on the outboard end of the beam. Clearance for the cargo hook provision at the aft end is provided.

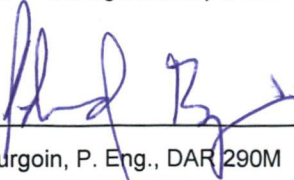
Installation of Quick Release Cargo Basket on the mounting provisions. The cargo basket is similar construction to other AERO Design Ltd. baskets, and uses the same attachment features.

**Primary Changes to the Aeronautical Product:**

Installation of External Attachment Provisions; Installation of Quick Release Mounting Provisions; Installation of Quick Release Cargo Basket.

**Secondary Changes to the Aeronautical Product (Required as consequence of primary changes):****Other Relevant Modifications to the Aeronautical Product (Which impact on this change):**



CHANGED PRODUCT RULE (CPR) DECISION RECORD	
<b>NAPA No.:</b>	
<b>Step 1:</b> Identify the proposed change to the aeronautical product. (Section 4.1 of AC 500-016)	The changes are as previously described.
<b>Step 2:</b> Is the change substantial? (Section 4.2 of AC 500-016)	<input type="checkbox"/> Yes A new type certificate is required. CPR Decision Process is <b>Closed</b> . <input checked="" type="checkbox"/> No Proceed to Step 3
<b>Step 3:</b> Will the latest standards be used? (Section 4.3 of AC 500-016)	<input type="checkbox"/> Yes Certification basis to use latest standards. CPR Decision Process is <b>Closed</b> . <input checked="" type="checkbox"/> No Proceed to Step 4.
<b>Step 4:</b> Is the proposed change significant? (Section 4.4 of AC 500-016)	<input type="checkbox"/> Yes Proceed to Decision. <input checked="" type="checkbox"/> No Compliance may be shown to earlier standards. Certification basis to be defined and documented as indicated (below). CPR Decision Process is <b>Closed</b> .
<b>Decision:</b> Will the latest standards be used?	<input type="checkbox"/> Yes Certification basis to use latest standards. CPR Decision Process is <b>Closed</b> . <input checked="" type="checkbox"/> No Proceed to Step 5, addressing each area separately (see below).
<b>Identification of Affected Areas:</b>	The area(s) affected by the proposed change have been detailed in Compliance Program: CP811
<b>Note:</b> A delegate may develop a proposal for the Yes/No decision of Step 6, however, TCCA will make the final determination.	
<b>Area:</b>	
<b>Step 5:</b> Is this area affected by the proposed change? (Section 6.1 of AC 500-016)	<input type="checkbox"/> Yes Proceed to Step 6. <input checked="" type="checkbox"/> No Compliance with the latest standards is not required. Compliance may be shown to earlier standards. Certification basis defined or documented as indicated below.
<b>Step 6:</b> Are the latest standards practical and do they contribute materially to the level of safety? (Section 6.2 of AC 500-016)	<input type="checkbox"/> Yes Certification basis to be established using latest standards. <input checked="" type="checkbox"/> No Compliance with the latest standards is not required. Compliance may be shown to earlier standards. Certification Basis defined or documented as indicated in below.
<input type="checkbox"/> Continuation Sheet(s) Attached	<b>Note:</b> Several standards may apply to each area and the assessment may differ from standard to standard. Indicate Yes if compliance with any latest standard(s) will be required. Indicate No only if no later standards are to be applied.
<b>Certification Basis</b>	The certification basis is as follows or as detailed in the listed document(s): Bell 206B, TCDS H-92: CAR 6 dated December 20, 1956, Amendments 6-1 thru 6-4, CAR 6.307(b) and 6.637 of Amendment 6-5, Special Conditions dated October 2, 1962, as revised February 8, 1966.
Under the delegated authority, I have examined the change in type design listed above according to established procedures and hereby determine, to the best of my knowledge and belief, that it is. (check one)	
<input type="checkbox"/> substantial, pursuant to subsection 511.14 or 513.14 of the CARs <input type="checkbox"/> significant, pursuant to subsection 511.13(3) or 513.07(3) of the CARs <input checked="" type="checkbox"/> not significant, pursuant to subsection 511.13(3) or 513.07(3) of the CARs	
<div style="display: flex; justify-content: space-between;"> <div>             E. Burgoin, P. Eng., DAR 290M         </div> <div>           6 January 2009            Date         </div> </div>	

# AIRWORTHINESS REQUIREMENTS COMPLIANCE PROGRAM

CP803

APPLICANT: AERO Design Ltd.  
2013 - 39th Ave N.E.  
Calgary, Alberta  
T2E 6R7

CORRESPONDANCE TO: AERO Design Ltd.  
(If other than applicant) 2013 - 39th Ave N.E.  
Calgary, Alberta  
T2E 6R7

DATE: 06 January 2009  
REV. No. 0

MAKE: Bell  
MODEL: 206B

REGISTRATION:  
SERIAL No.:

NATURE OF WORK: Installation of Side-Mounted External Mounting Provisions and Cargo Basket

MODEL CERTIFICATION BASIS: CAR 6, dated December 20, 1956, Amendments 6-1 thru 6-4, CAR 6.307(b) and 6.637 of Amendment 6-5  
MODIFICATION CERTIFICATION BASIS: CAR 6, dated December 20, 1956, Amendments 6-1 thru 6-4, CAR 6.307(b) and 6.637 of Amendment 6-5

Airworthiness Requirement	Subject for Compliance or Documentary Proof	Form of Substantiation	DOT	DAR	Comments
<b>Subpart B</b>	<b>Flight</b>				
6.104	Empty Weight and Corresponding C of G	Data specified on inst'n drawing		X	
6.110	Performance - General	Flight Test	X		
6.111	Takeoff	Flight Test	X		
6.112	Climb	Flight Test	X		
6.120	Flight Characteristics - General	Flight Test	X		Flight Test in accordance with FTP803.03
6.121	Controllability	Flight Test	X		
6.122	Trim Control	Flight Test	X		Transport Canada to Flight Test
6.123	Stability	Flight Test	X		
6.131	Ground Resonance	Flight Test	X		
6.140	Flutter and Vibration	Flight Test	X		
<b>Subpart C</b>	<b>Strength Requirements</b>				
6.200	Loads - Air Drag Loads	Analysis		X	
6.200	Loads - Inertia Loads	Compliance with 6.212 and 6.260		X	
6.201	Strength and Deformation	Analysis and Test iaw AC 43.13-1B		X	
6.202	Proof of Structure	Analysis and Test iaw AC 43.13-1B		X	
6.212	Limit Maneuvering Load Factor - Positive	Analysis and Test iaw AC 43.13-1B		X	Critical load factor in downward direction.
6.250	Main Rotor Structure	Flight Test	X		
6.260(c)	Emergency Landing Conditions	Analysis and Test iaw AC 43.13-1B		X	
6.260(c)	Emergency Landing Conditions - Up	Analysis and Test iaw AC 43.13-1B		X	



# AIRWORTHINESS REQUIREMENTS COMPLIANCE PROGRAM

Airworthiness Requirement	Subject for Compliance or Documentary Proof	Form of Substantiation	DOT	DAR	Comments
6.260(c)	Emergency Landing Conditions – Fwd	N/A			Forward deflection or failure of basket poses no threat to occupants.
6.260(c)	Emergency Landing Conditions – Side	Analysis and Test iaw AC 43.13-1B		X	
6.260(c)	Emergency Landing Conditions – Down	Compliance with 6.212		X	6.212 Maneuvering Load is Critical.
<b>Subpart D</b>	<b>Design and Construction</b>				
6.300	Design	Drawings		X	Design is conventional.
6.301	Materials	Drawings		X	Materials used are specified in Mil-Hdbk-5J
6.302	Fabrication Methods	Drawings		X	Design is conventional.
6.304	Protection of Structure	Drawings		X	
6.305	Inspection Provisions	Drawings		X	Design is easy to inspect.
6.306	Mat'l Strength Properties and Design Values	Values used as per Mil-Hdbk-5J		X	
6.307(d)	Special Factors – Fitting Factor	Analysis		X	
6.354	Doors	N/A			Installation does not interfere with doors.
6.356(a)	Cargo and Baggage Compartments	Compliance with 6.200 through 6.212		X	
6.356(b)	Cargo and Baggage Compartments	Design		X	Basket is a closed container.
6.356(c)	Cargo and Baggage Compartments	N/A			Cargo is external to helicopter.
6.357	Emergency Exits	N/A			Installation does not interfere with doors.
<b>Subpart G</b>	<b>Operating Limitations and Information</b>				
6.711	Never Exceed Speed	Flight Test, Flight Manual Supplement	X		
6.718	Kinds of Operation	Flight Manual Supplement	X		Limited to VFR only.
6.719	Maintenance Manual	ICA Provided	X		
6.738(a)	Miscellaneous Markings and Placards – Baggage Compartments	Placard on lid		X	
6.740	Rotorcraft Flight Manual – General	Flight Manual Supplement	X		
6.741	Operating Limitations – Weight and Loading Information	Flight Manual Supplement	X		
6.742	Operating Procedures	Flight Manual Supplement	X		
6.743	Performance Information	Flight Manual Supplement	X		

## MODIFICATION APPROVAL REQUEST APPLICATION FORM

MOD803, Rev. 0

<b>1. NAME AND ADDRESS OF APPLICANT:</b> AERO Design Ltd. 2013 - 39th Avenue NE Calgary, Alberta T2E 6R7		<b>2. IDENTIFICATION OF PRODUCT</b> <table border="1" style="width:100%; border-collapse: collapse;"><tr><td style="width:50%; vertical-align: top;">MAKE:  Bell</td><td style="width:50%; vertical-align: top;">MODEL:  206B</td></tr><tr><td style="vertical-align: top;">SERIAL No.:  All eligible</td><td style="vertical-align: top;">REGISTRATION:  All eligible</td></tr></table>		MAKE:  Bell	MODEL:  206B	SERIAL No.:  All eligible	REGISTRATION:  All eligible																																																																							
MAKE:  Bell	MODEL:  206B																																																																													
SERIAL No.:  All eligible	REGISTRATION:  All eligible																																																																													
<b>3. REQUEST FOR:</b> <table style="width:100%;"><tr><td style="width:45%;">A. SUPPLEMENTAL TYPE CERTIFICATE (STC)</td><td style="width:5%; text-align: center;"><input checked="" type="checkbox"/></td><td style="width:50%;"></td></tr><tr><td>B. STC/STA REVISION</td><td style="text-align: center;"><input type="checkbox"/></td><td>STC/STA No.</td></tr><tr><td>C. LIMITED SUPPLEMENTAL TYPE CERTIFICATE (LSTC)</td><td style="text-align: center;"><input type="checkbox"/></td><td></td></tr><tr><td>D. LIMITED STC/STA REVISION</td><td style="text-align: center;"><input type="checkbox"/></td><td>LSTC/LSTA No.</td></tr><tr><td>E. F.A.A. SUPPLEMENTAL TYPE CERTIFICATE</td><td style="text-align: center;"><input type="checkbox"/></td><td></td></tr><tr><td>F. F.A.A. STC REVISION</td><td style="text-align: center;"><input type="checkbox"/></td><td>STC No.</td></tr><tr><td>G. FAMILIARIZATION OF F.A.A. STC</td><td style="text-align: center;"><input type="checkbox"/></td><td>STC No.</td></tr><tr><td>H. REPAIR DESIGN APPROVAL (RDC)</td><td style="text-align: center;"><input type="checkbox"/></td><td></td></tr><tr><td>I. PARTS DESIGN APPROVAL (PDA)</td><td style="text-align: center;"><input type="checkbox"/></td><td></td></tr></table>		A. SUPPLEMENTAL TYPE CERTIFICATE (STC)	<input checked="" type="checkbox"/>		B. STC/STA REVISION	<input type="checkbox"/>	STC/STA No.	C. LIMITED SUPPLEMENTAL TYPE CERTIFICATE (LSTC)	<input type="checkbox"/>		D. LIMITED STC/STA REVISION	<input type="checkbox"/>	LSTC/LSTA No.	E. F.A.A. SUPPLEMENTAL TYPE CERTIFICATE	<input type="checkbox"/>		F. F.A.A. STC REVISION	<input type="checkbox"/>	STC No.	G. FAMILIARIZATION OF F.A.A. STC	<input type="checkbox"/>	STC No.	H. REPAIR DESIGN APPROVAL (RDC)	<input type="checkbox"/>		I. PARTS DESIGN APPROVAL (PDA)	<input type="checkbox"/>		C-09-0006																																																	
A. SUPPLEMENTAL TYPE CERTIFICATE (STC)	<input checked="" type="checkbox"/>																																																																													
B. STC/STA REVISION	<input type="checkbox"/>	STC/STA No.																																																																												
C. LIMITED SUPPLEMENTAL TYPE CERTIFICATE (LSTC)	<input type="checkbox"/>																																																																													
D. LIMITED STC/STA REVISION	<input type="checkbox"/>	LSTC/LSTA No.																																																																												
E. F.A.A. SUPPLEMENTAL TYPE CERTIFICATE	<input type="checkbox"/>																																																																													
F. F.A.A. STC REVISION	<input type="checkbox"/>	STC No.																																																																												
G. FAMILIARIZATION OF F.A.A. STC	<input type="checkbox"/>	STC No.																																																																												
H. REPAIR DESIGN APPROVAL (RDC)	<input type="checkbox"/>																																																																													
I. PARTS DESIGN APPROVAL (PDA)	<input type="checkbox"/>																																																																													
<b>4. TITLE OF MODIFICATION OR REPAIR:</b> External Attachment Provisions Installation; Quick Release Mounting Provisions Installation; Quick Release Cargo Basket Installation																																																																														
<b>5. BRIEF DESCRIPTION OF MODIFICATION OR REPAIR:</b> Installation of external attachment provisions that replace the landing gear support in the front, and the landing gear saddle strap in the back. Installation of Quick Release Mounting Provisions consisting of mounting beams that incorporate the release mechanism onto the external attachment provisions. Installation of Quick Release Cargo Basket on the Mounting Provisions.																																																																														
<b>6. APPLICABLE TYPE APPROVAL (TA) OR TYPE CERTIFICATE (TC) DOCUMENTS:</b> A. TA NO. <u>H-92</u> B. TC No. _____      C. OTHER _____																																																																														
<b>7. PROPOSED BASIS OF APPROVAL:</b> A. SAME AS TA <input checked="" type="checkbox"/> B. SAME AS TC <input type="checkbox"/> C. OTHER <input type="checkbox"/> (Please specify) _____																																																																														
<b>8. DOCUMENTATION CHECKLIST</b>		<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th colspan="2" style="text-align: center;">REQUIRED</th><th colspan="3" style="text-align: center;">FOR DOT USE ONLY</th></tr><tr><th colspan="2"></th><th colspan="3" style="text-align: center;">RECEIVED</th></tr><tr><th style="text-align: center;">YES</th><th style="text-align: center;">NO</th><th style="text-align: center;">YES</th><th style="text-align: center;">NO</th><th style="text-align: center;">DATE</th></tr></thead><tbody><tr><td style="text-align: center;">X</td><td></td><td></td><td></td><td></td></tr><tr><td style="text-align: center;">X</td><td></td><td></td><td></td><td></td></tr><tr><td style="text-align: center;">X</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td style="text-align: center;">X</td><td></td><td></td><td></td></tr><tr><td style="text-align: center;">X</td><td></td><td></td><td></td><td></td></tr><tr><td style="text-align: center;">X</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td style="text-align: center;">X</td><td></td><td></td><td></td></tr><tr><td></td><td style="text-align: center;">X</td><td></td><td></td><td></td></tr><tr><td></td><td style="text-align: center;">X</td><td></td><td></td><td></td></tr><tr><td style="text-align: center;">X</td><td></td><td></td><td></td><td></td></tr><tr><td style="text-align: center;">X</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>		REQUIRED		FOR DOT USE ONLY					RECEIVED			YES	NO	YES	NO	DATE	X					X					X						X				X					X						X					X					X				X					X									
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<b>9. APPLICANT'S REMARKS:</b>   																																																																														
<b>10.</b> In addition to the payment of Aircraft Certification approval fees as prescribed in Canadian Aviation Regulations (CAR) Section 104, I agree to reimburse Transport Canada incremental expenses as in Aviation Regulation Directive No. 3, or equivalent, as applicable. For further details governing cost recovery, refer to AMA 513/4. <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 10px;"><div style="width: 30%;"><p>PER: <u>AERO DESIGN LTD</u></p><p>SIGNATURE OF APPLICANTS</p></div><div style="width: 30%;"><p>Consultant</p><p>TITLE</p></div><div style="width: 30%; text-align: right;"><p>6 January, 2009</p><p>DATE</p></div></div>																																																																														
<b>11.</b> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 10px;"><div style="width: 30%;"><p>SIGNATURE OF REGIONAL ENGINEER</p></div><div style="width: 30%;"></div><div style="width: 30%; text-align: right;"><p>DATE</p></div></div>																																																																														